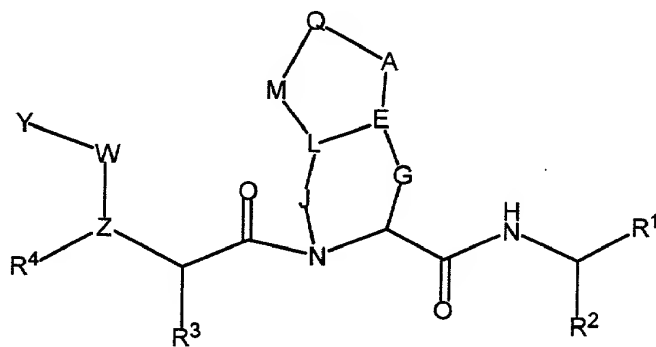


Claims

What is claimed is:

1. A compound, including enantiomers, stereoisomers, rotamers, tautomers, racemates and prodrug of said compound, and pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound having the general structure shown in Formula I:



Formula I

wherein:

Y is selected from the group consisting of the following moieties: alkyl, alkyl-aryl, heteroalkyl, heteroaryl, aryl-heteroaryl, alkyl-heteroaryl, cycloalkyl, alkyloxy, alkyl-aryloxy, aryloxy, heteroaryloxy, heterocycloalkyloxy, cycloalkyloxy, , alkylamino, arylamino, alkyl-aryl amino, arylamino, heteroaryl amino, cycloalkyl amino and heterocycloalkyl amino, with the proviso that Y maybe optionally substituted with X^{11} or X^{12} ;

X^{11} is alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkyl-alkyl, heterocyclyl, heterocyclylalkyl, aryl, alkylaryl, arylalkyl, heteroaryl, alkylheteroaryl, or heteroarylalkyl, with the proviso that X^{11} may be additionally optionally substituted with X^{12} ;

X^{12} is hydroxy, alkoxy, aryloxy, thio, alkylthio, arylthio, amino, alkylamino, arylamino, alkylsulfonyl, arylsulfonyl, alkylsulfonamido, arylsulfonamido, carboxy, carbalkoxy, carboxamido, alkoxycarbonylamino, alkoxycarbonyloxy, alkylureido,

arylureido, halogen, cyano, or nitro, with the proviso that said alkyl, alkoxy, and aryl may be additionally optionally substituted with moieties independently selected from X^{12} ;

R^1 is COR^5 or $B(OR)_2$, wherein R^5 is H, OH, OR^8 , NR^9R^{10} , CF_3 , C_2F_5 , C_3F_7 ,

5 CF_2R^6 , R^6 , or COR^7 wherein R^7 is H, OH, OR^8 , CHR^9R^{10} , or NR^9R^{10} , wherein R^6 , R^8 , R^9 and R^{10} are independently selected from the group consisting of H, alkyl, aryl, heteroalkyl, heteroaryl, cycloalkyl, cycloalkyl, arylalkyl, heteroarylalkyl, $[CH(R^1)]_pCOOR^{11}$, $[CH(R^1)]_pCONR^{12}R^{13}$, $[CH(R^1)]_pSO_2R^{11}$, $[CH(R^1)]_pCOR^{11}$, $[CH(R^1)]_pCH(OH)R^{11}$,

10 $CH(R^1)CONHCH(R^2)COO R^{11}$, $CH(R^1)CONHCH(R^2)CONR^{12}R^{13}$, $CH(R^1)CONHCH(R^2)R'$, $CH(R^1)CONHCH(R^2)CONHCH(R^3)COO R^{11}$, $CH(R^1)CONHCH(R^2)CONHCH(R^3)CONR^{12}R^{13}$, $CH(R^1)CONHCH(R^2)CONHCH(R^3)CONHCH(R^4)COO R^{11}$, $CH(R^1)CONHCH(R^2)CONHCH(R^3)CONHCH(R^4)CONR^{12}R^{13}$, $CH(R^1)CONHCH(R^2)CONHCH(R^3)CONHCH(R^4)CONHCH(R^5)COO R^{11}$ and $CH(R^1)CONHCH(R^2)CONHCH(R^3)CONHCH(R^4)CONHCH(R^5)CONR^{12}R^{13}$, wherein R^1 , R^2 , R^3 , R^4 , R^5 , R^{11} , R^{12} , R^{13} , and R' are

independently selected from the group consisting of H, alkyl, aryl, heteroalkyl, heteroaryl, cycloalkyl, alkyl-aryl, alkyl-heteroaryl, aryl-alkyl and heteroaralkyl;

Z is selected from O, N, CH or CR;

W maybe present or absent, and if W is present, W is selected from $C=O$, $C=S$, $C(=N-CN)$, or SO_2 ;

Q maybe present or absent, and when Q is present, Q is CH, N, P, $(CH_2)_p$,

25 $(CHR)_p$, $(CRR')_p$, O, NR, S, or SO_2 ; and when Q is absent, M may be present or absent; when Q and M are absent, A is directly linked to L ;

A is O, CH_2 , $(CHR)_p$, $(CHR-CHR')_p$, $(CRR')_p$, NR, S, SO_2 or a bond;

E is CH, N, CR, or a double bond towards A, L or G;

G may be present or absent, and when G is present, G is $(CH_2)_p$, $(CHR)_p$, or $(CRR')_p$; and when G is absent, J is present and E is directly connected to the carbon atom in Formula I as G is linked to;

J may be present or absent, and when J is present, J is $(CH_2)_p$, $(CHR)_p$, or $(CRR')_p$, SO_2 , NH , NR or O ; and when J is absent, G is present and E is directly linked to N shown in Formula I as linked to J;

L may be present or absent, and when L is present, L is CH , CR , O , S or NR ; and when L is absent, then M may be present or absent; and if M is present with L being absent, then M is directly and independently linked to E, and J is directly and independently linked to E;

M may be present or absent, and when M is present, M is O , NR , S , SO_2 , $(CH_2)_p$, $(CHR)_p$, $(CHR-CHR')_p$, or $(CRR')_p$;

p is a number from 0 to 6; and

R, R', R², R³ and R⁴ are independently selected from the group consisting of H;

C₁-C₁₀ alkyl; C₂-C₁₀ alkenyl; C₃-C₈ cycloalkyl; C₃-C₈ heterocycloalkyl, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, halogen;

(cycloalkyl)alkyl and (heterocycloalkyl)alkyl, wherein said cycloalkyl is made of three to eight carbon atoms, and zero to six oxygen, nitrogen, sulfur, or phosphorus atoms, and said alkyl is of one to six carbon atoms; aryl; heteroaryl; alkyl-aryl; and alkyl-heteroaryl;

wherein said alkyl, heteroalkyl, alkenyl, heteroalkenyl, aryl, heteroaryl, cycloalkyl and heterocycloalkyl moieties may be optionally and chemically-suitably

substituted, with said term "substituted" referring to optional and chemically-

suitable substitution with one or more moieties selected from the group consisting of alkyl, alkenyl, alkynyl, aryl, aralkyl, cycloalkyl, heterocyclic, halogen, hydroxy, thio, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, sulfonamido, sulfoxide, sulfone, sulfonyl urea, hydrazide, and hydroxamate;

further wherein said unit N-C-G-E-L-J-N represents a five-membered or six-membered cyclic ring structure with the proviso that when said unit N-C-G-E-L-J-N represents a five-membered cyclic ring structure, or when the bicyclic ring structure in Formula I comprising N, C, G, E, L, J, N, A, Q, and M represents a five-membered cyclic ring structure, then said five-membered cyclic ring structure lacks a carbonyl group as part of the cyclic ring.

2. The compound of claim 1, wherein R^1 is COR^5 , and R^5 is H, OH, $COOR^8$, $CONR^9R^{10}$.

3. The compound of claim 2, wherein R^1 is $COCONR^9R^{10}$, and R^9 is H, R^{10} is H, R^{14} , $[CH(R^{1'})]_pCOOR^{11}$, $[CH(R^{1'})]_pCONR^{12}R^{13}$, $[CH(R^{1'})]_pSO_2R^{11}$, $[CH(R^{1'})]_pSO_2N R^{12}R^{13}$, $[CH(R^{1'})]_pCOR^{11}$, $CH(R^{1'})CONHCH(R^{2'})COOR^{11}$, $CH(R^{1'})CONHCH(R^{2'}) CONR^{12}R^{13}$, or $CH(R^{1'})CONHCH(R^{2'})(R')$, wherein R^{14} is H, alkyl, aryl, heteroalkyl, heteroaryl, cycloalkyl, alkyl-aryl, alkyl-heteroaryl, aryl-alkyl, alkenyl, alkynyl or heteroaralkyl.

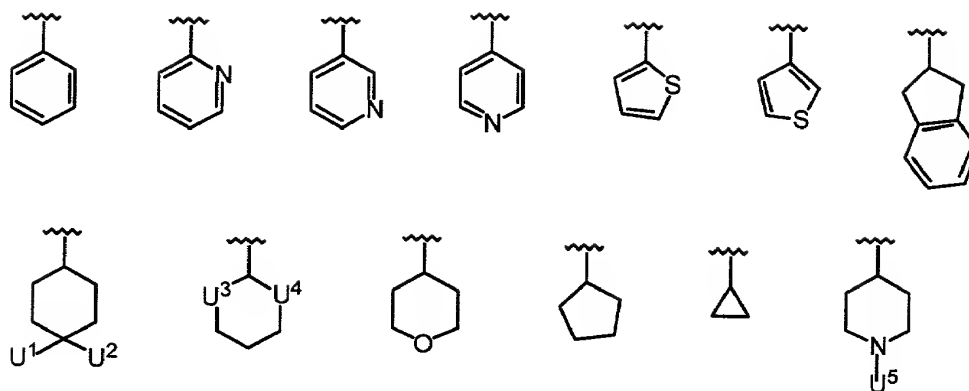
4. The compound of claim 3, wherein R^{10} is H, R^{14} , $CH(R^{1'})COOR^{11}$, $CH(R^{1'})CH(R^{1'})COOR^{11}$, $CH(R^{1'})CONR^{12}R^{13}$, $CH(R^{1'})CH(R^{1'})CONR^{12}R^{13}$, $CH(R^{1'})CH(R^{1'})SO_2R^{11}$, $CH(R^{1'})CH(R^{1'})SO_2N R^{12}R^{13}$, $CH(R^{1'})CH(R^{1'})COR^{11}$, $CH(R^{1'})CONHCH(R^{2'})COOR^{11}$, $CH(R^{1'})CONHCH(R^{2'}) CONR^{12}R^{13}$, or $CH(R^{1'})CONHCH(R^{2'})(R')$, wherein $R^{1'}$ is H or alkyl, and $R^{2'}$ is phenyl, substituted phenyl, hetero atom-substituted phenyl, thiophenyl, cycloalkyl, piperidyl or pyridyl.

5. The compound of claim 4, wherein $R^{1'}$ is H.

6. The compound of claim 5, wherein R^{11} is H, methyl, ethyl, allyl, *tert*-butyl, benzyl, α -methylbenzyl, α,α -dimethylbenzyl, 1-methylcyclopropyl or 1-methylcyclopentyl;

R' is hydroxymethyl or $CH_2CONR^{12}R^{13}$;

$R^{2'}$ is independently selected from the group consisting of:



wherein:

U^1 and U^2 maybe same or different and are selected

from H, F, CH_2COOH , CH_2COOMe , CH_2CONH_2 ,

$CH_2CONHMe$, CH_2CONMe_2 , azido, amino, hydroxyl,
substituted amino, substituted hydroxyl;

U^3 and U^4 maybe same or different and are selected
from O and S;

U^5 is selected from the moieties consisting of alkyl

sulfonyl, aryl sulfonyl, heteroalkyl sulfonyl, heteroaryl

sulfonyl, alkyl carbonyl, aryl carbonyl, heteroalkyl

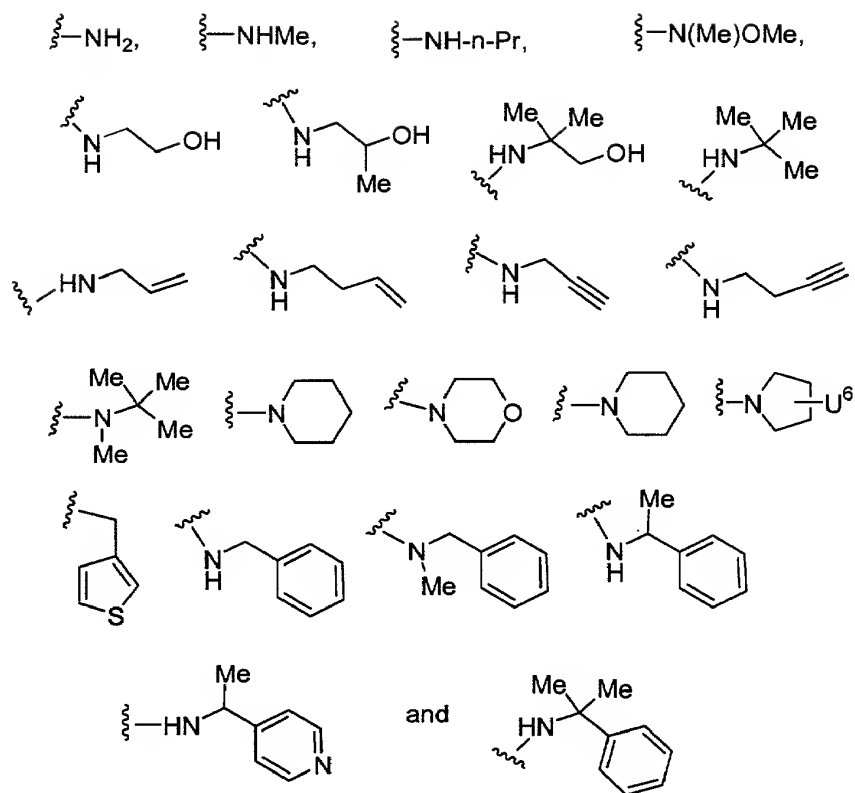
carbonyl, heteroaryl carbonyl, alkoxycarbonyl,

aryloxycarbonyl, heteroaryloxycarbonyl,

alkylaminocarbonyl, arylaminocarbonyl,

heteroarylamino carbonyl or a combination thereof;

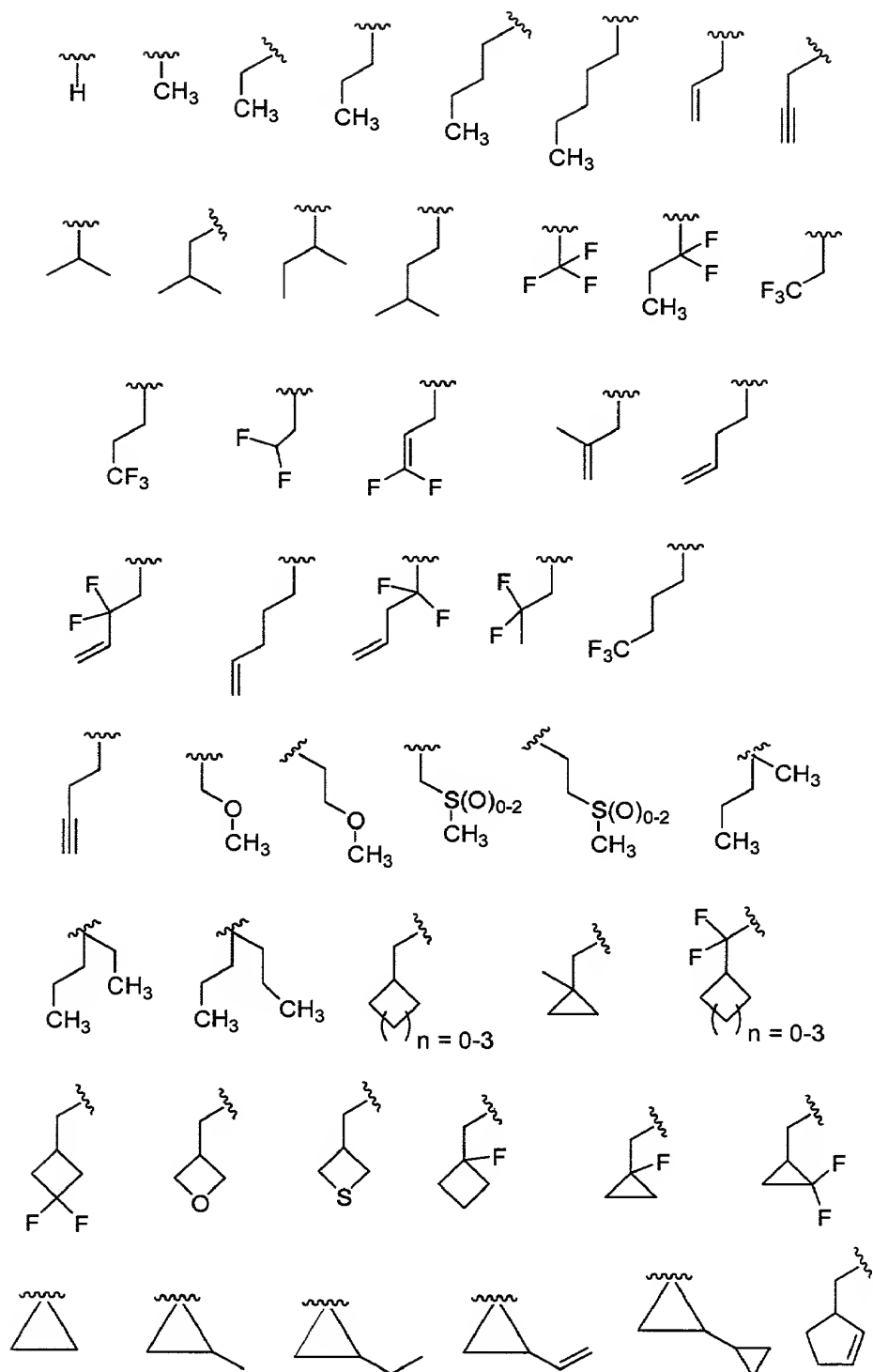
and $NR^{12}R^{13}$ is selected from the group consisting of:



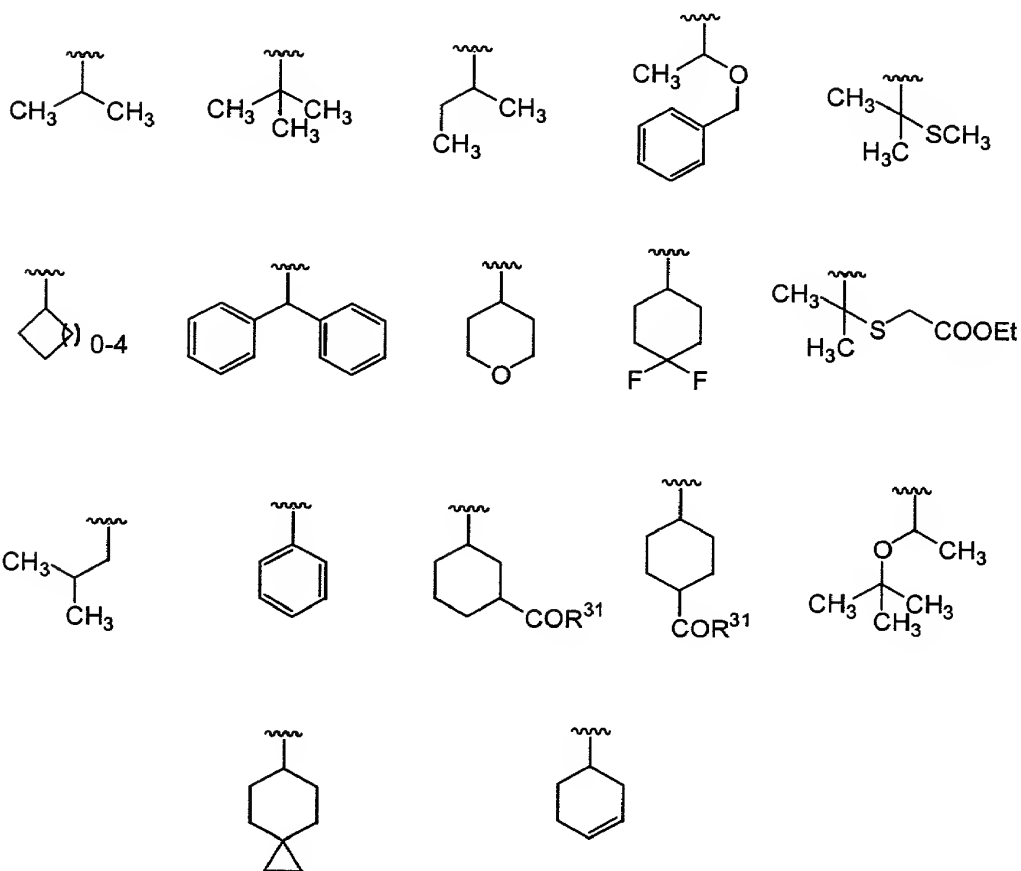
wherein U^6 is H, OH, or CH_2OH , and

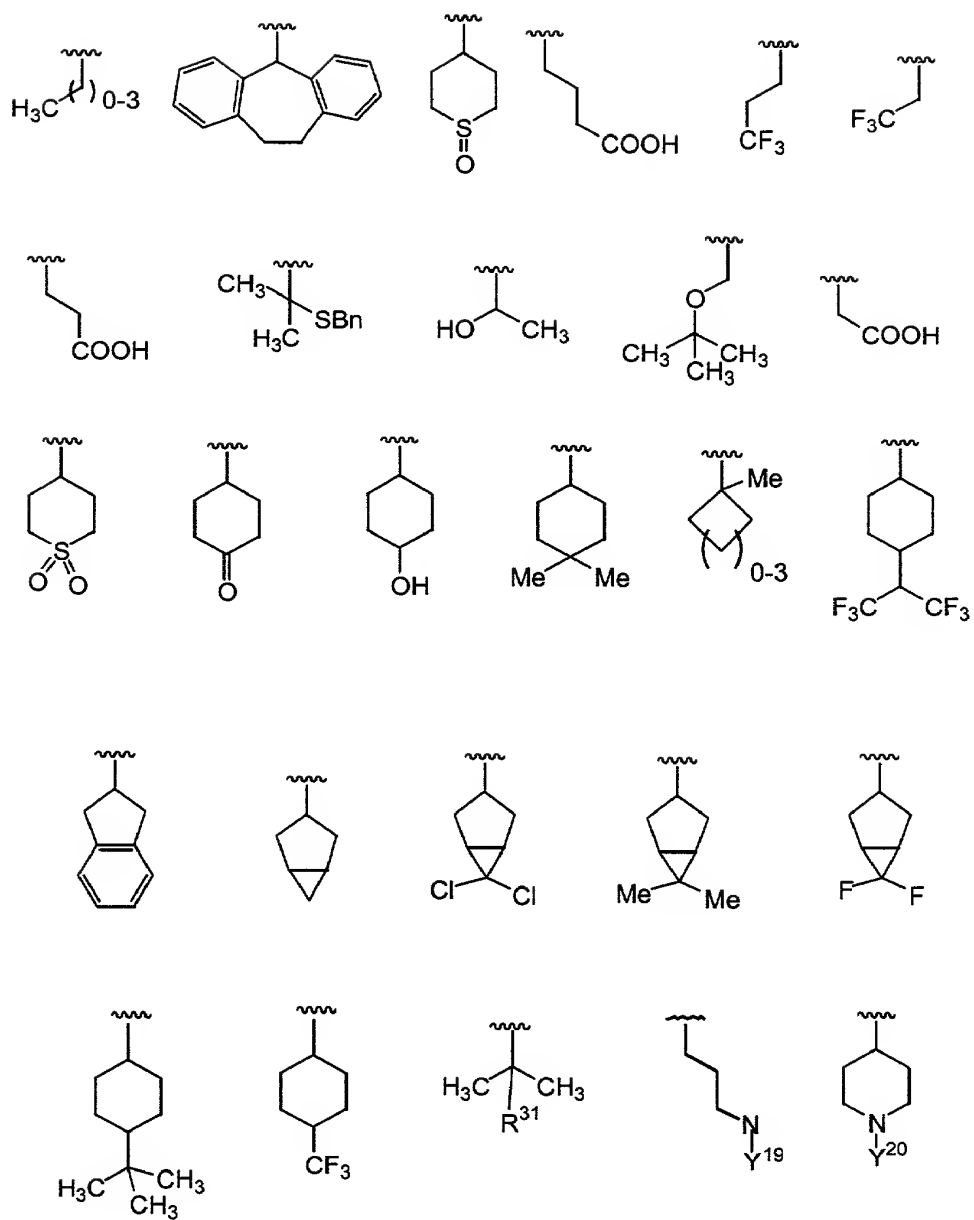
R^{14} is selected from the group consisting of: H, Me, Et, *n*-propyl, methoxy,
 5 cyclopropyl, *n*-butyl, 1-but-3-ynyl, benzyl, α -methylbenzyl, phenethyl, allyl, 1-but-3-enyl, OMe, cyclopropylmethyl.

7. The compound of claim 2, wherein R^2 is selected from the group consisting of the following moieties:



8. The compound of claim 7, wherein R^3 is selected from the group consisting of:

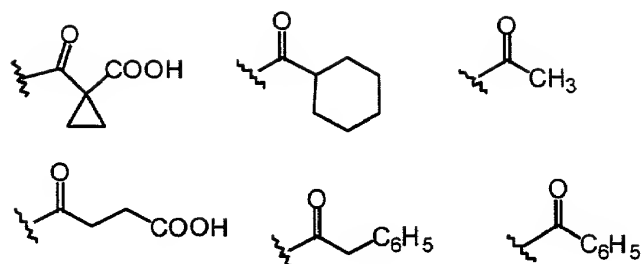




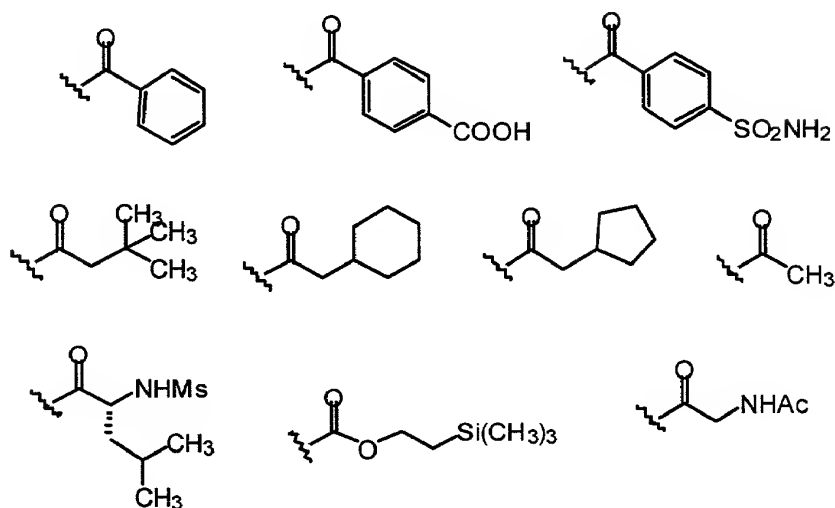
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wherein $R^{31} = \text{OH}$ or O-alkyl;

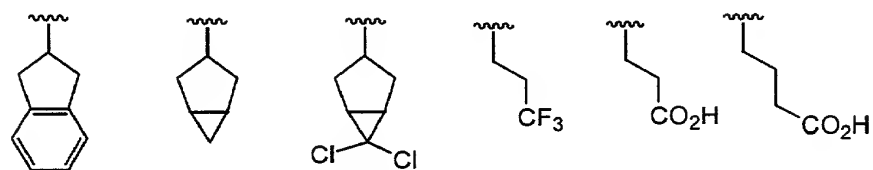
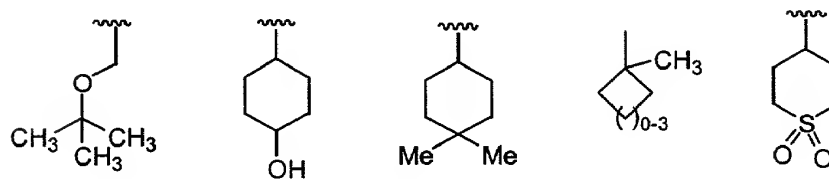
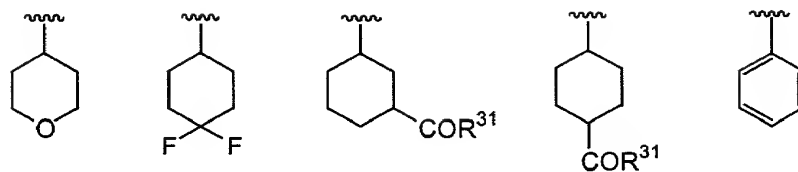
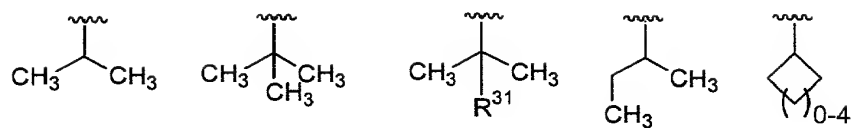
Y^{19} is selected from the following moieties:



and Y^{20} is selected from the following moieties:

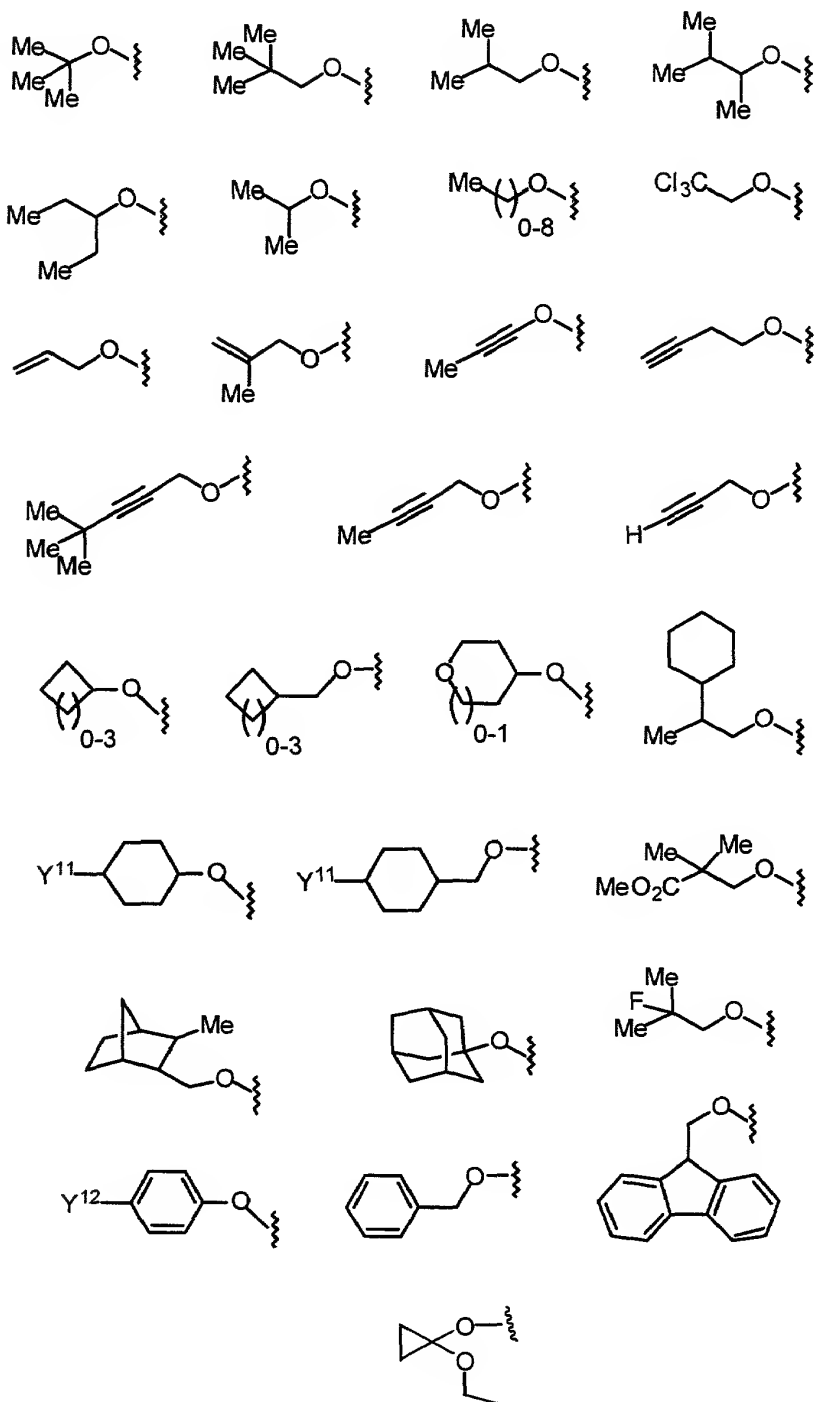


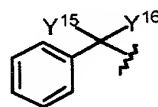
9. The compound of claim 8, wherein R^3 is selected from the group consisting of the following moieties:

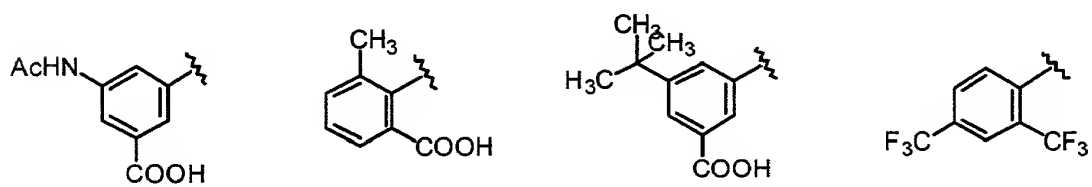
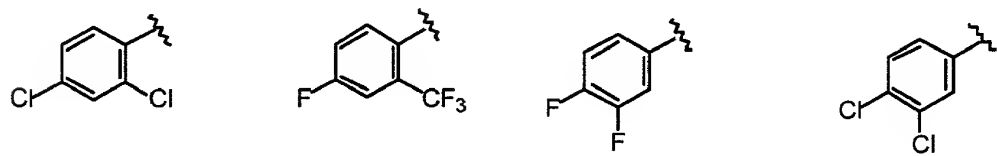
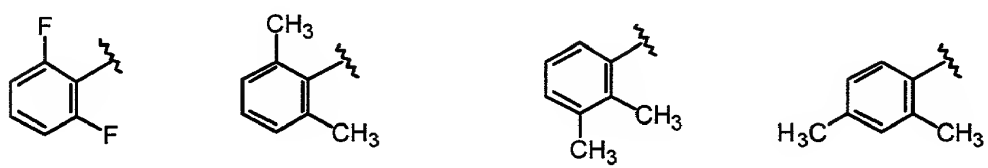
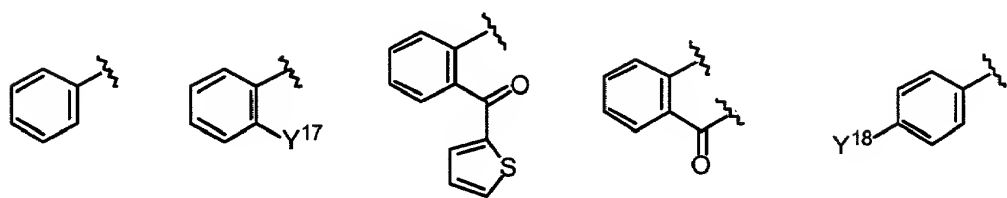
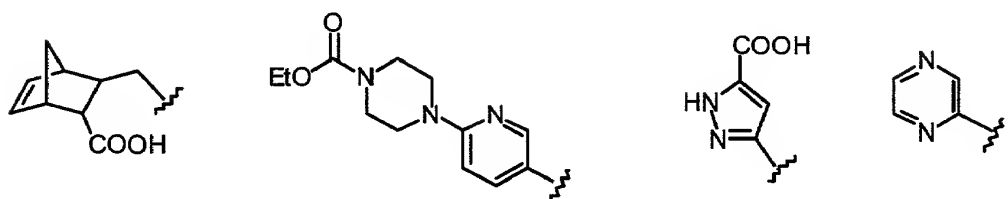
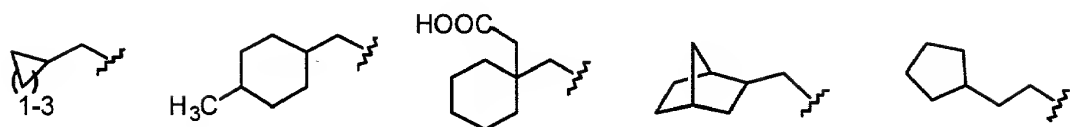
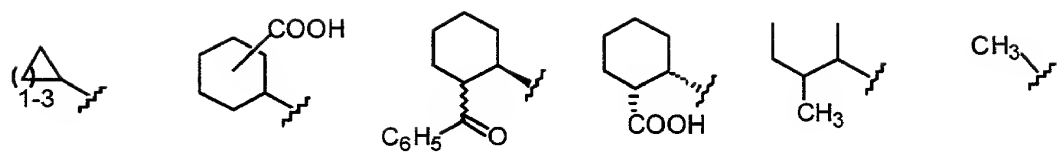


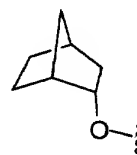
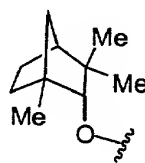
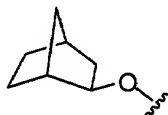
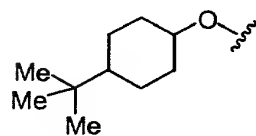
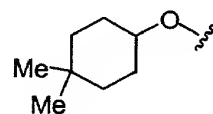
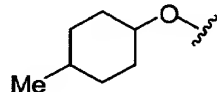
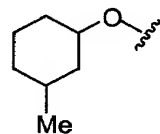
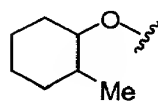
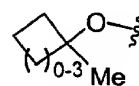
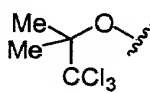
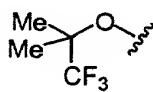
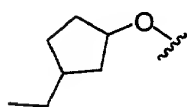
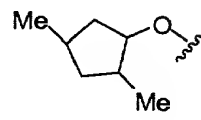
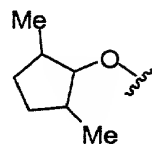
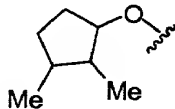
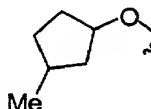
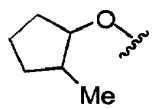
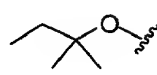
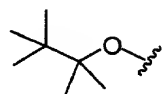
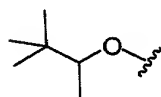
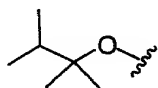
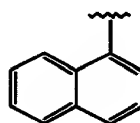
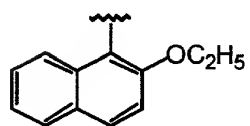
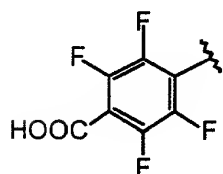
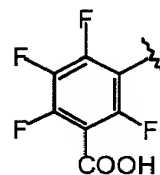
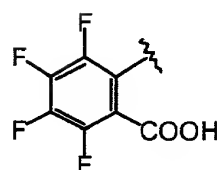
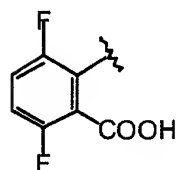
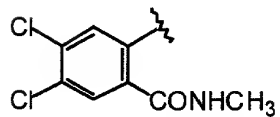
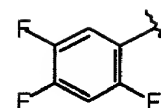
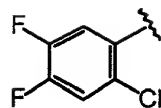
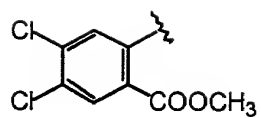
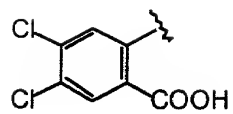
10. The compound of claim 9, wherein Z is N and R⁴ is H.
11. The compound of claim 10, wherein W is C=O.

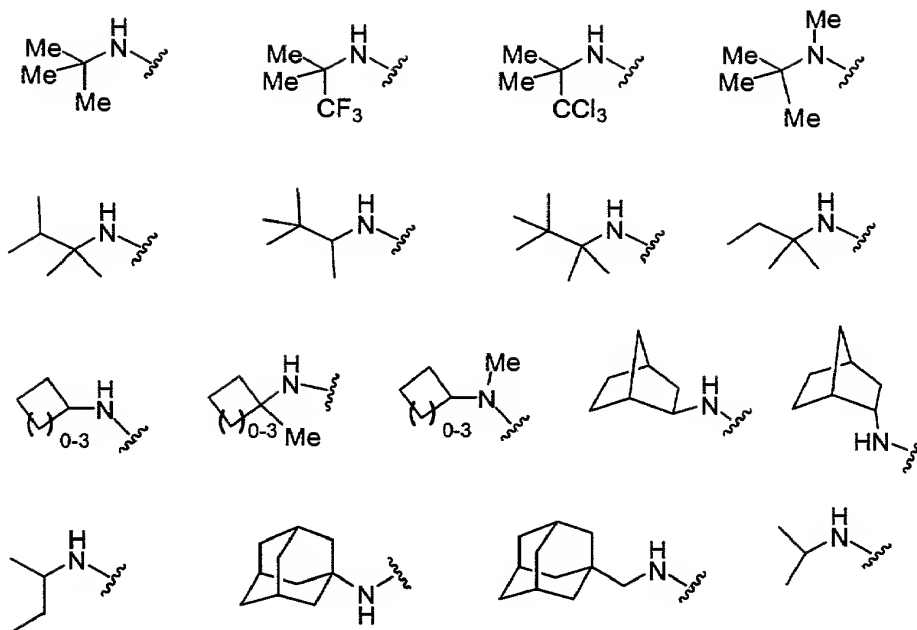
12. The compound of claim 11, wherein Y is selected from the following moieties:











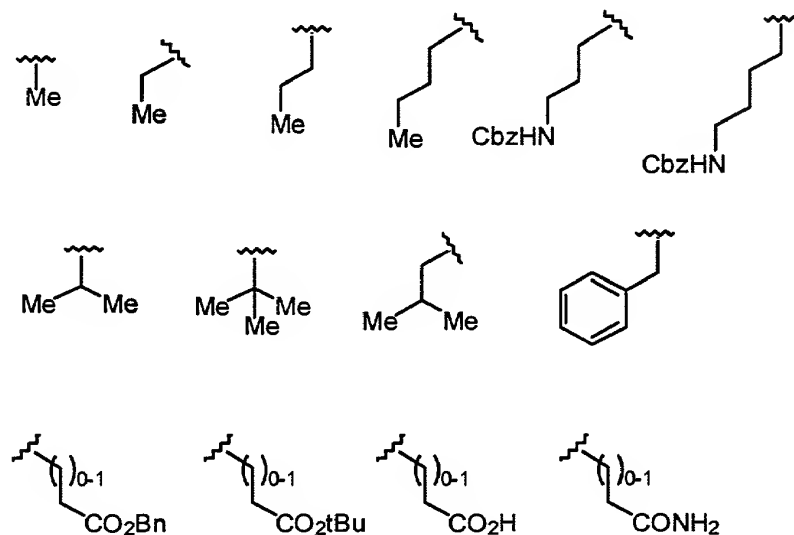
wherein:

Y^{11} is selected from H, COOH, COOEt, OMe, Ph, OPh,

5 . NHMe, NHAc, NPh, CH(Me)₂, 1-triazolyl, 1-imidazolyl,
and NHCH₂COOH;

Y^{12} is selected from H, COOH, COOMe, OMe, F, Cl, or Br;

Y^{13} is selected from the following moieties:



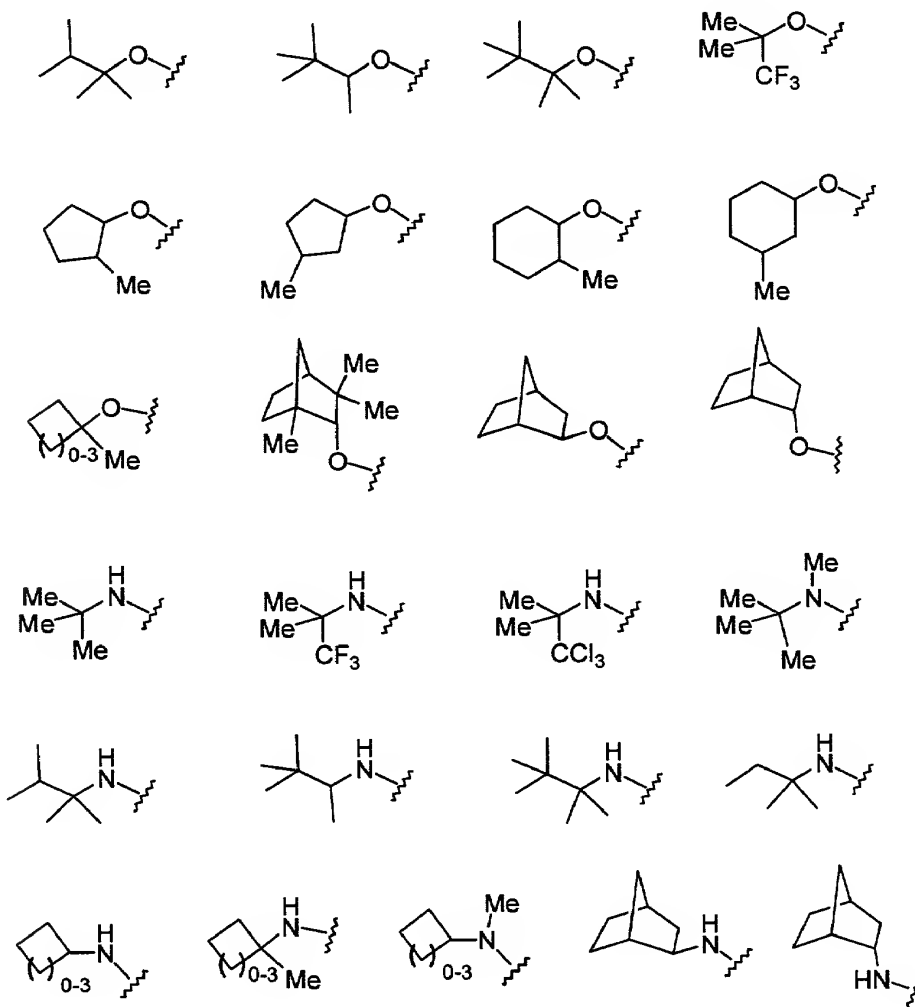
Y^{14} is selected from $MeSO_2$, Ac, Boc, iBoc, Cbz, or Alloc;

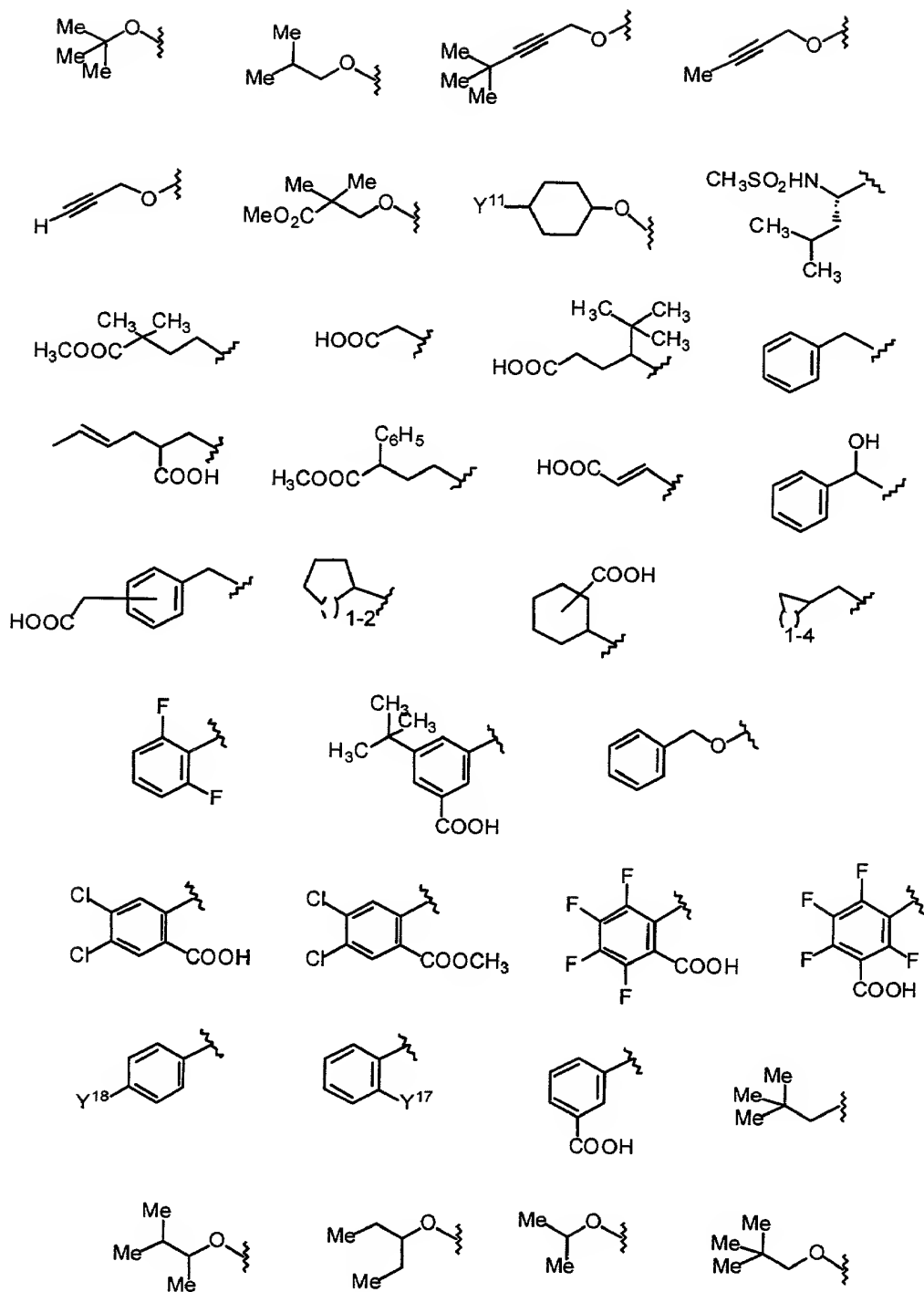
Y^{15} and Y^{16} are independently selected from alkyl, aryl, heteroalkyl, and heteroaryl;

- 5 Y^{17} is CF_3 , NO_2 , $CONH_2$, OH, $COOCH_3$, OCH_3 , OC_6H_5 , C_6H_5 , COC_6H_5 , NH_2 , or $COOH$; and

Y^{18} is $COOCH_3$, NO_2 , $N(CH_3)_2$, F, OCH_3 , CH_2COOH , $COOH$, SO_2NH_2 , or $NHCOCH_3$.

13. The compound of claim 12, wherein Y is selected from the group consisting of:



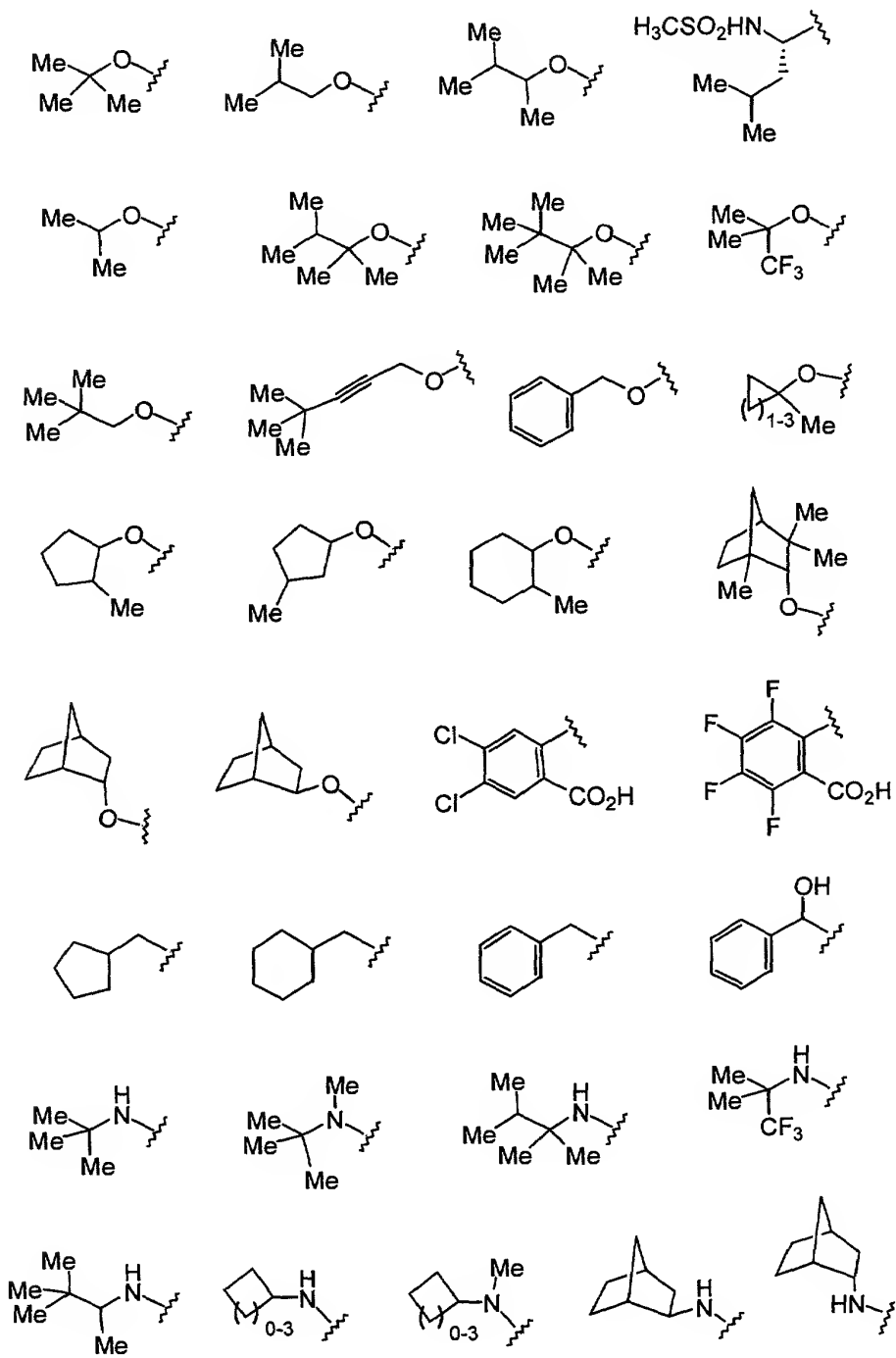


wherein:

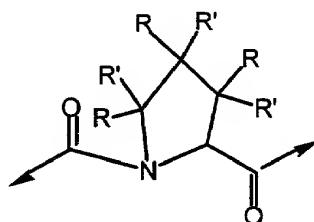
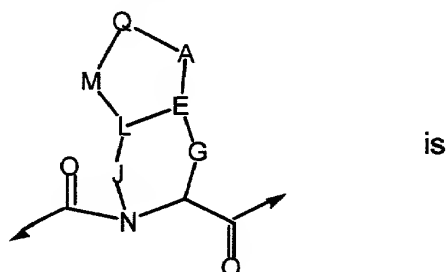
$\text{Y}^{17} = \text{CF}_3, \text{NO}_2, \text{CONH}_2, \text{OH}, \text{NH}_2, \text{or COOH};$

$\text{Y}^{18} = \text{F}, \text{COOH},$

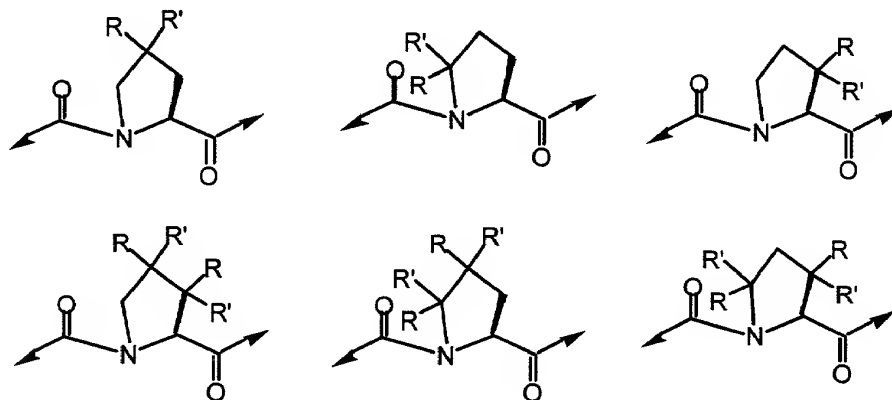
14. The compound of claim 13, wherein Y is selected from the group consisting of:



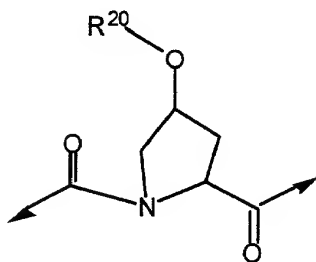
15. The compound of claim 14, wherein L and M are absent, and J is directly linked to E.
16. The compound of claim 14, wherein L, J and M are absent and E is directly linked to N.
17. The compound of claim 14, wherein G and M are absent.
18. The compound of claim 14, wherein the moiety:



19. The compound of claim 18, wherein structure a is selected from the following structures:

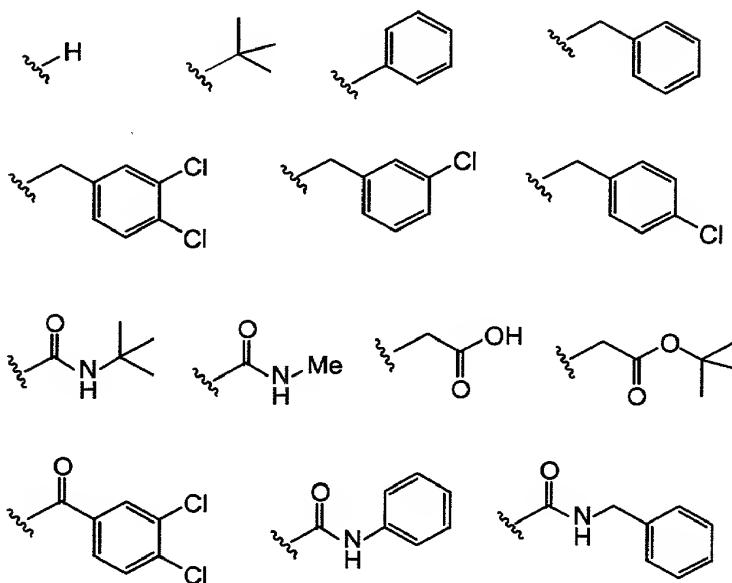


20. The compound of claim 18, wherein structure a is:

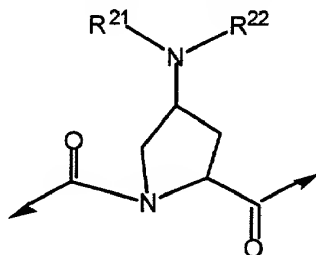


wherein R^{20} is selected from the following structures:

5

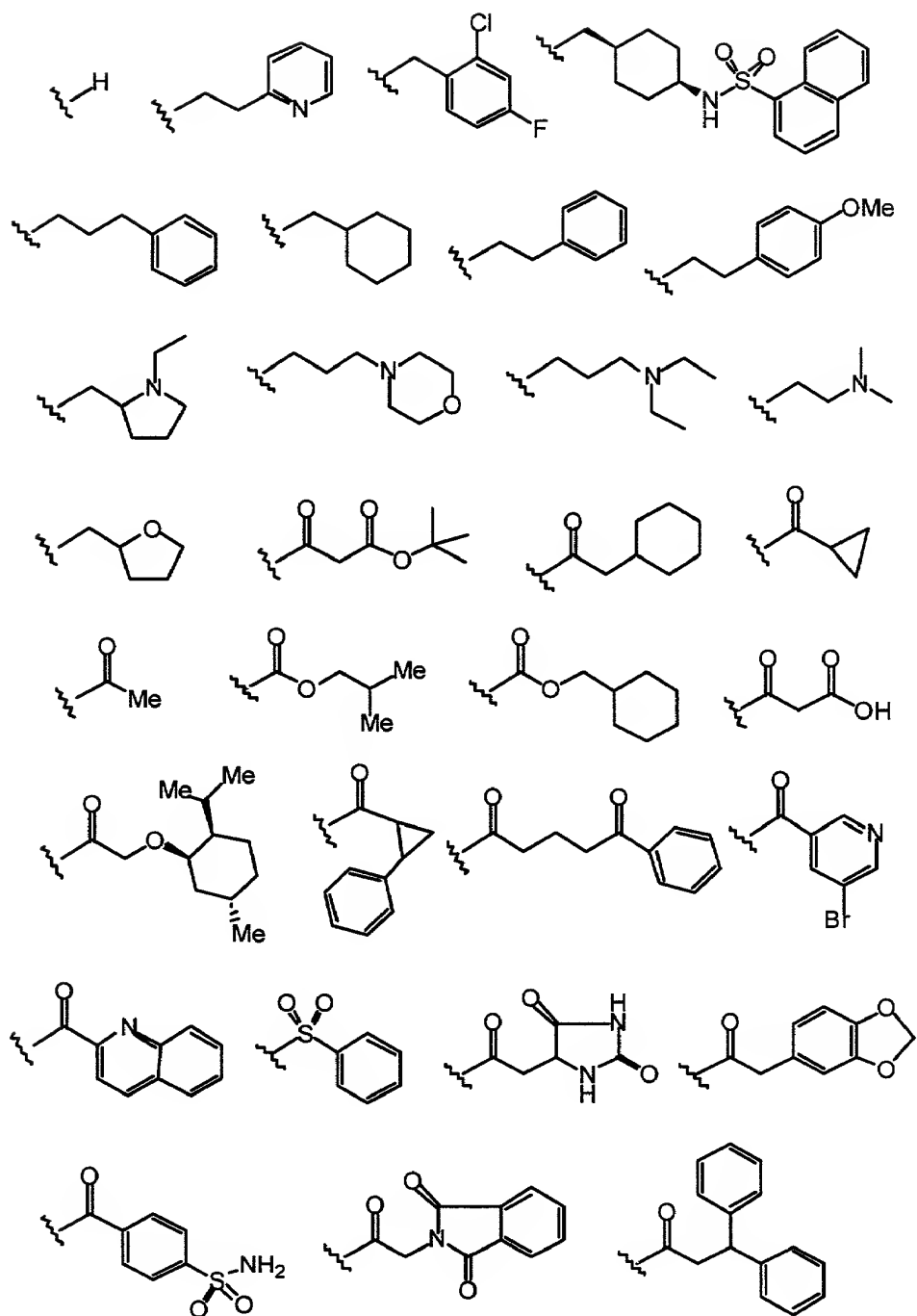


21. The compound of claim 18, wherein structure a is:

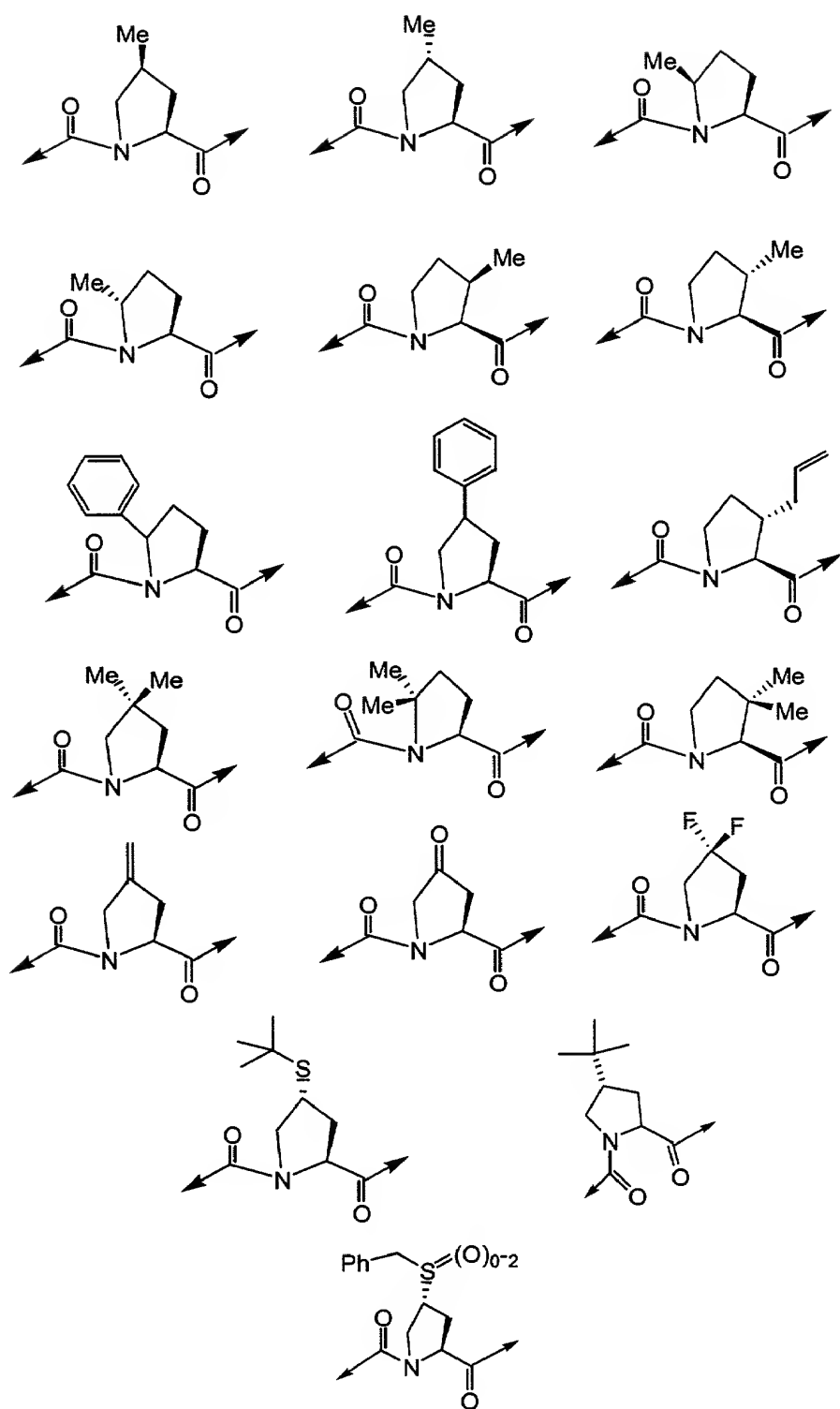


wherein R^{21} and R^{22} may be the same or different and are independently selected from the following structures:

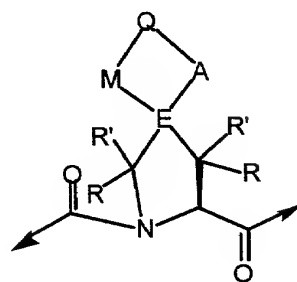
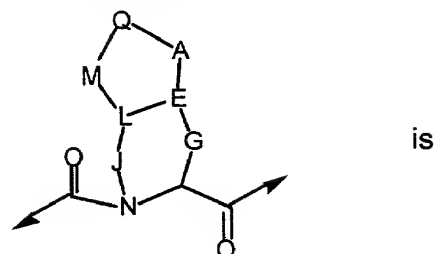
10



22. The compound of claim 18, wherein structure a is selected from the following structures:



23. The compound of claim 14, wherein:

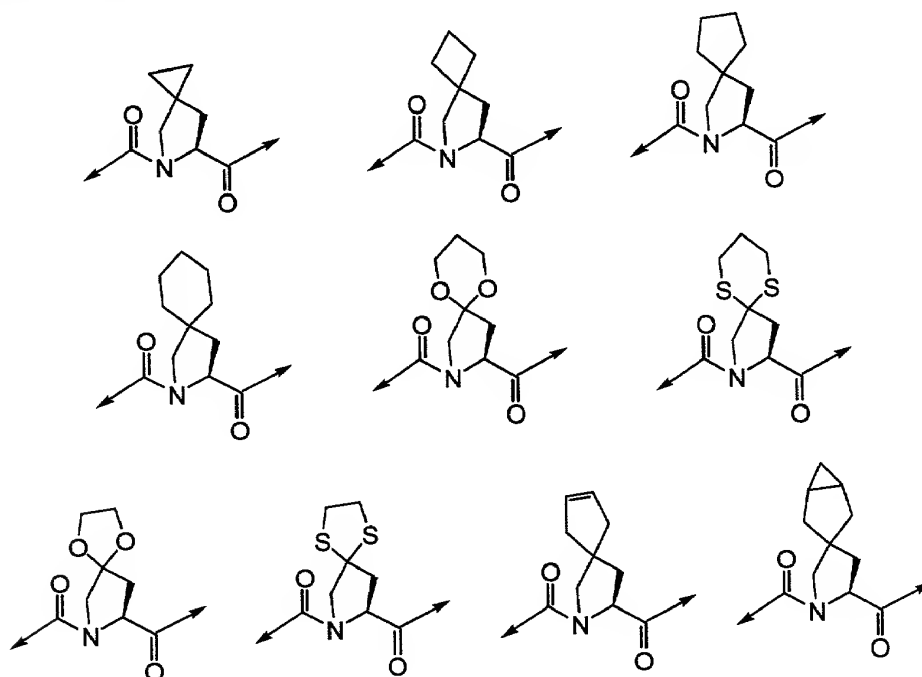


b

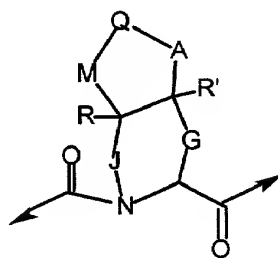
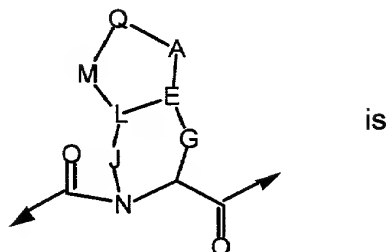
wherein Q may be present or absent, and if Q is absent, M is directly linked to A.

24. The compound of claim 23, wherein structure b is selected from the

5 following structures:



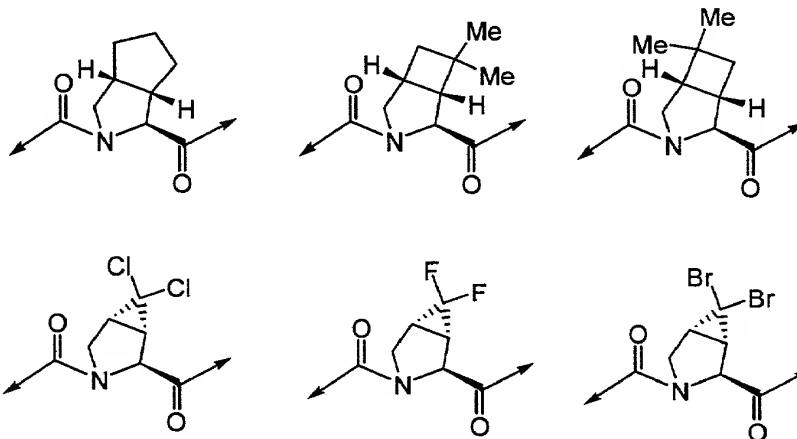
25. The compound of claim 14, wherein:

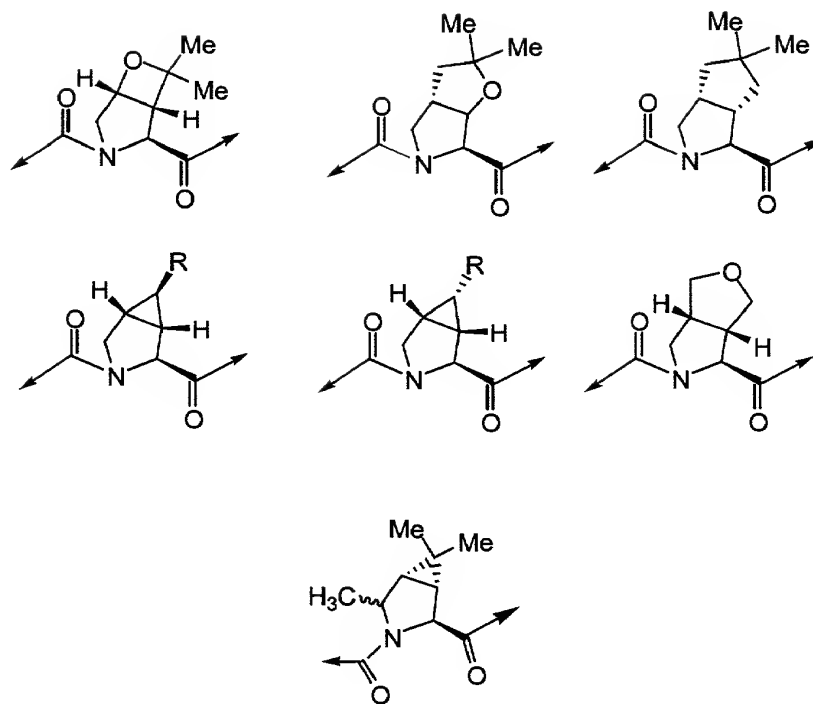


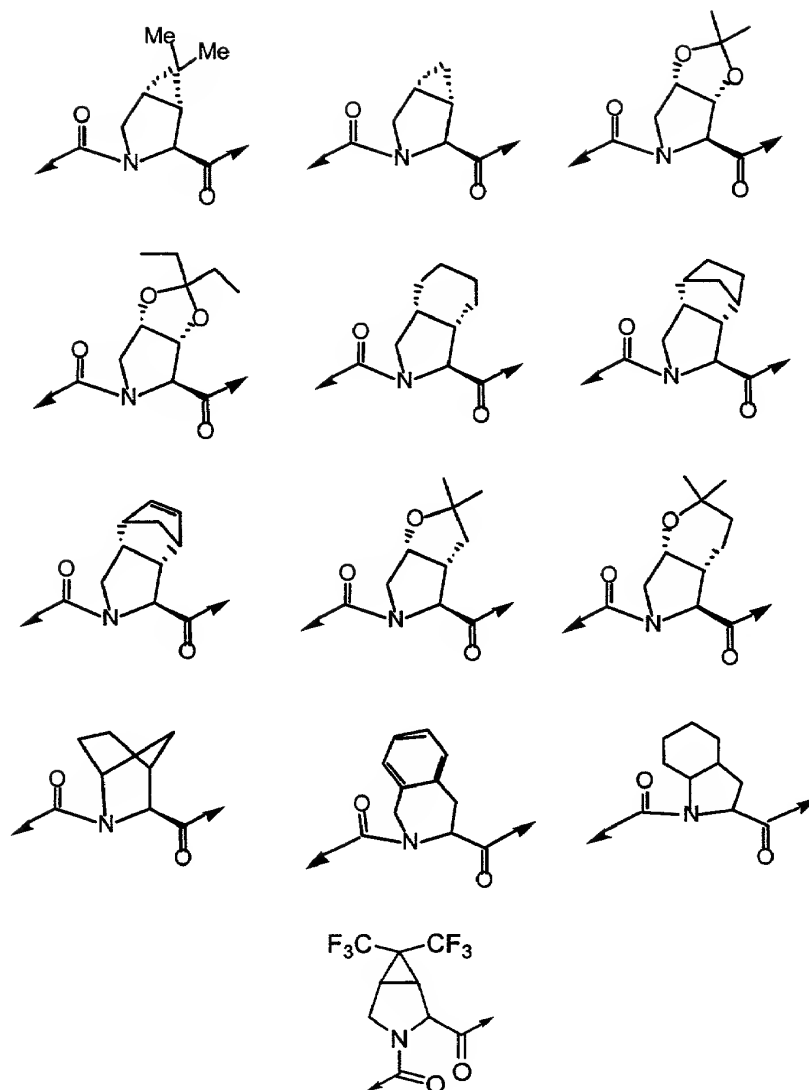
c

wherein G and J are independently selected from the group consisting of $(CH_2)_p$, $(CHR)_p$, $(CHR-CHR')_p$, and $(CRR')_p$; A and M are independently selected from the group consisting of O, S, SO_2 , NR, $(CH_2)_p$, $(CHR)_p$, $(CHR-CHR')_p$, and $(CRR')_p$; and Q is CH_2 , CHR, CRR', NH, NR, O, S, SO_2 , NR, $(CH_2)_p$, $(CHR)_p$, and $(CRR')_p$.

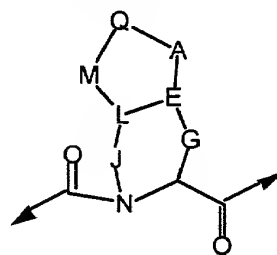
26. The compound of claim 25, wherein structure c is selected from the following structures:



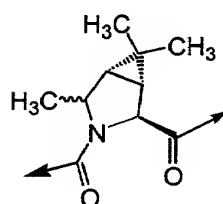
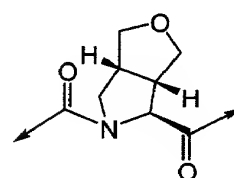
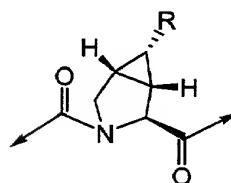
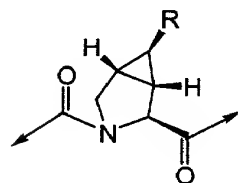
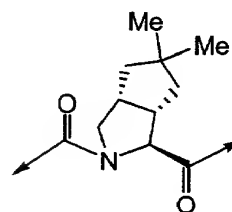
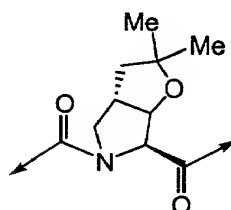
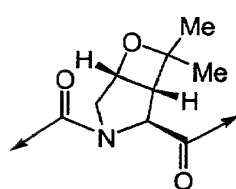
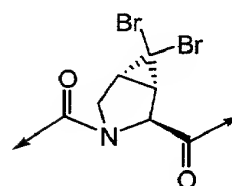
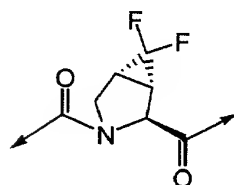
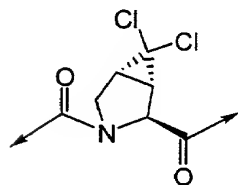
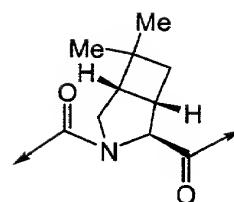
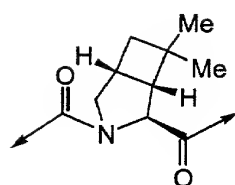
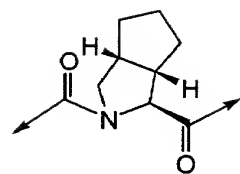


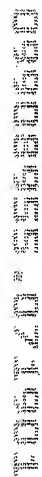


27. The compound of claim 14, wherein:

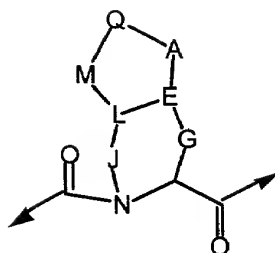


is selected from the following structures:

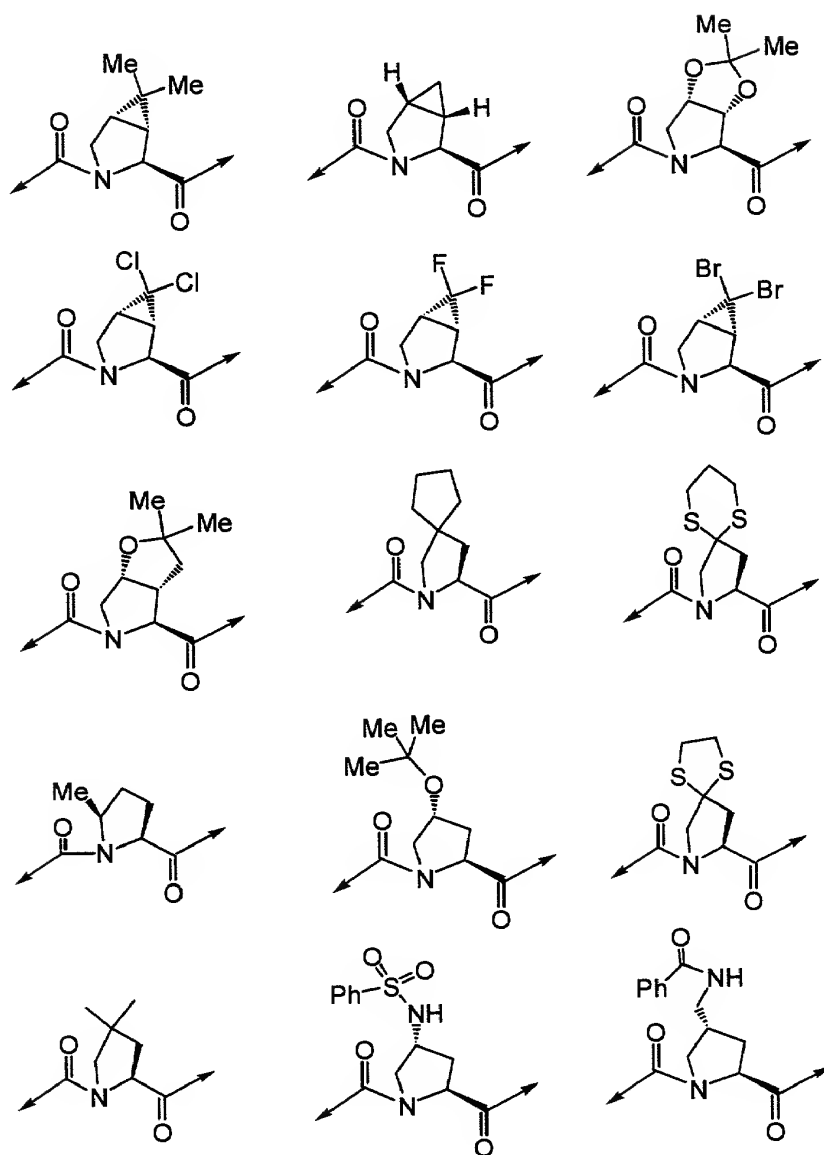




1. The first part of the document is a list of names and their corresponding addresses. The names are: "John Doe", "Jane Smith", "Bob Johnson", "Alice Brown", "Charlie White", "David Green", "Eve Black", "Frank Gray", "Grace Pink", "Henry Blue", "Ivy Yellow", "Jack Purple", "Karen Red", "Leo Orange", "Mia Silver", "Noah Gold", "Olivia Bronze", "Peter Copper", "Quinn Iron", "Rachel Steel", "Sam Tin", "Tina Lead", "Uma Zinc", "Victor Nickel", "Wendy Platinum", "Xavier Silver", "Yara Gold", "Zoe Bronze". The addresses are: "123 Main St, New York, NY 10001", "456 Elm St, Los Angeles, CA 90001", "789 Oak St, Chicago, IL 60601", "101 Pine St, Houston, TX 77001", "202 Birch St, Phoenix, AZ 85001", "303 Cedar St, San Antonio, TX 78101", "404 Maple St, San Diego, CA 92101", "505 Walnut St, Dallas, TX 75201", "606 Hickory St, Austin, TX 78701", "707 Chestnut St, Fort Worth, TX 76101", "808 Spruce St, Columbus, OH 43201", "909 Ash St, Indianapolis, IN 46201", "1010 Sycamore St, Jacksonville, FL 32201", "1111 Redwood St, San Jose, CA 95101", "1212 Fir St, San Francisco, CA 94101", "1313 Cypress St, Oakland, CA 94601", "1414 Juniper St, Portland, OR 97201", "1515 Willow St, Seattle, WA 98101", "1616 Dogwood St, Denver, CO 80201", "1717 Magnolia St, Salt Lake City, UT 84101", "1818 Palm St, Las Vegas, NV 89101", "1919 Peach St, Reno, NV 89501", "2020 Apple St, Sacramento, CA 95801", "2121 Cherry St, Fresno, CA 93701", "2222 Orange St, Bakersfield, CA 93301", "2323 Lemon St, Modesto, CA 95201", "2424 Lime St, Stockton, CA 95201", "2525 Grape St, Yuba City, CA 95901", "2626 Berry St, Marysville, WA 98201", "2727 Strawberry St, Everett, WA 98201", "2828 Raspberry St, Bellingham, WA 98201", "2929 Blueberry St, Port Angeles, WA 98127", "3030 Elderberry St, Sequim, WA 98281".



is selected from the following structures:



29. A pharmaceutical composition comprising as an active ingredient a compound of claim 1.

30. The pharmaceutical composition of claim 29 for use in treating disorders associated with HCV.

5 31. The pharmaceutical composition of claim 29 additionally comprising a pharmaceutically acceptable carrier.

32. The pharmaceutical composition of claim 31, additionally containing an antiviral agent.

33. The pharmaceutical composition of claim 32, still additionally containing an
10 interferon.

34. The pharmaceutical composition of claim 33, wherein said antiviral agent is ribavirin and said interferon is α -interferon or pegylated interferon.

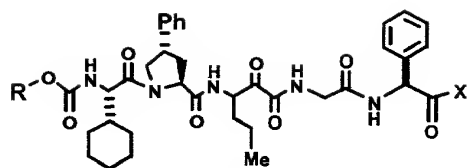
35. A method of treating disorders associated with the HCV, said method comprising administering to a patient in need of such treatment a pharmaceutical
15 composition which comprises therapeutically effective amounts of a compound of claim 1.

36. The method of claim 35, wherein said administration is oral or subcutaneous.

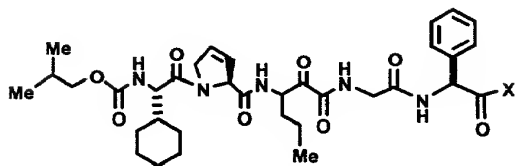
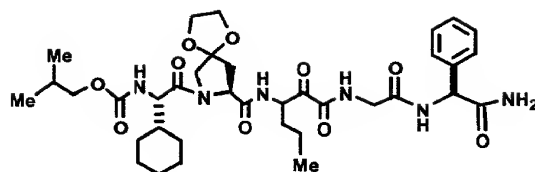
37. The use of a compound of claim 1 for the manufacture of a medicament to
20 treat disorders associated with the HCV.

38. A method of preparing a pharmaceutical composition for treating the disorders associated with the HCV, said method comprising bringing into intimate contact a compound of claim 1 and a pharmaceutically acceptable carrier.

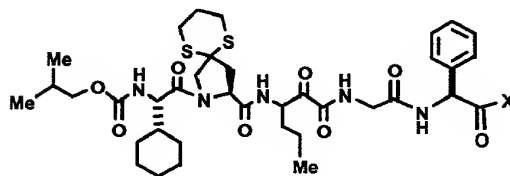
39. A compound exhibiting HCV protease inhibitory activity, including
25 enantiomers, stereoisomers, rotamers, tautomers, racemates and prodrug of said compound, and pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being selected from the compounds of structures listed below:



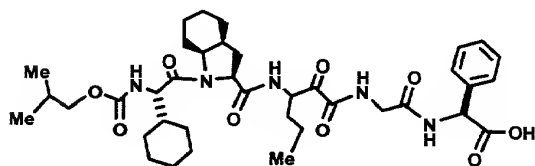
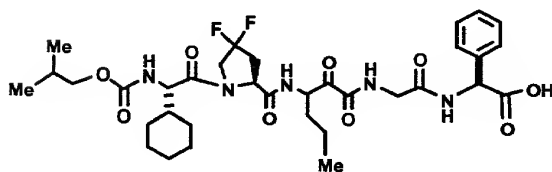
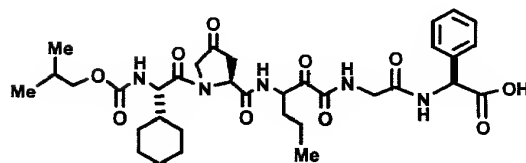
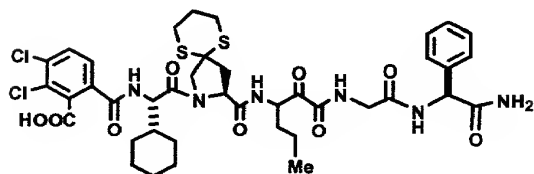
(R = t-butyl, X = NH₂)
 (R = Isobutyl, X = NH₂)
 (R = t-butyl, X = OH)
 (R = Trichloroethyl, X = OH)

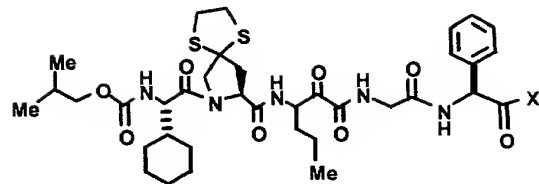
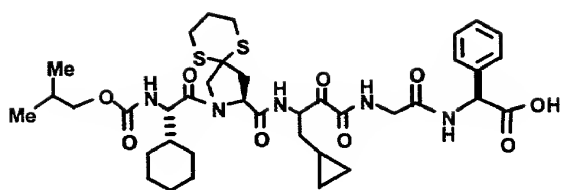


(X = O^tBu)
 (X = OH)

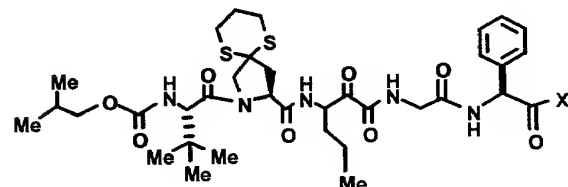
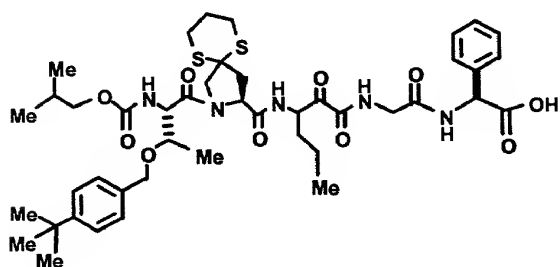
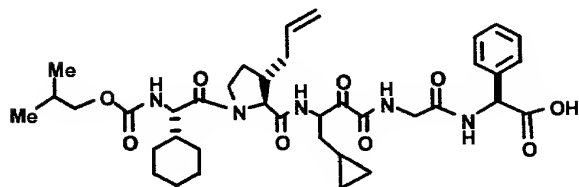
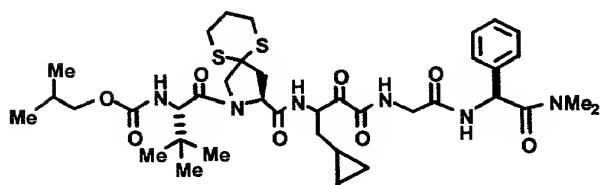


(X = OH)
 (X = O^tBu)
 (X = NH₂)
 (X = NHMe)
 (X = NMe₂)

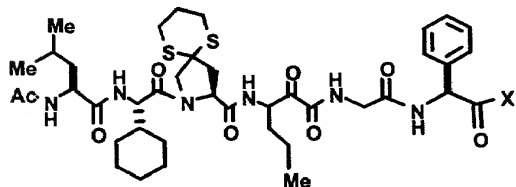




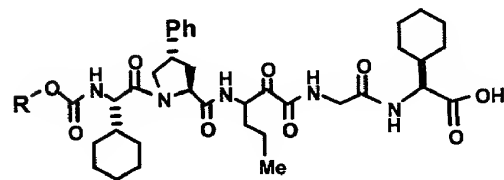
(X = NH₂)
 (X = NMe₂)
 (X = NHMe)
 (X = OH)



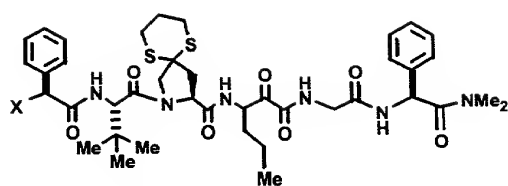
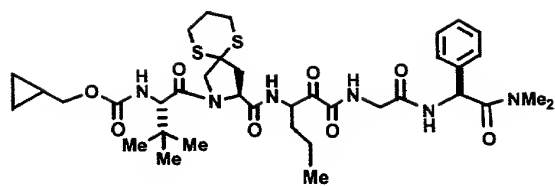
(X = O^tBu)
 (X = OH)
 (X = NH₂)
 (X = NMe₂)



(X = O^tBu)
 (X = OH)
 (X = NH₂)
 (X = NMe₂)
 (X = NMeOMe)

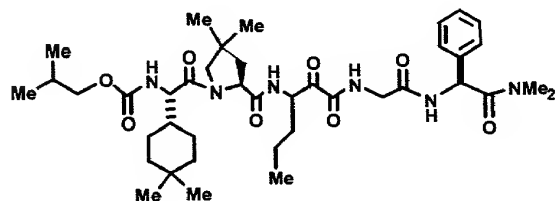
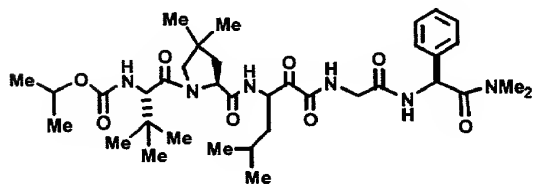
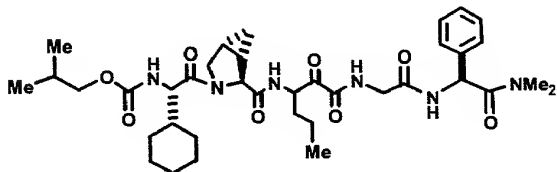
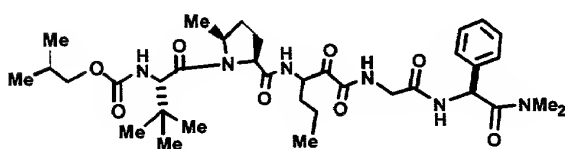
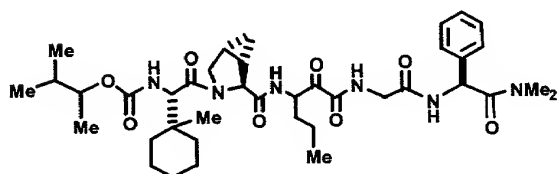
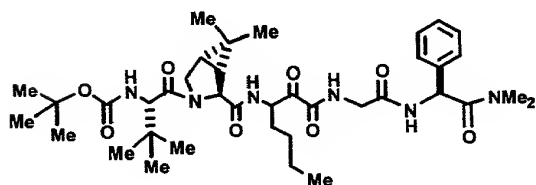
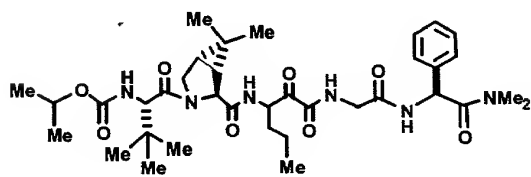
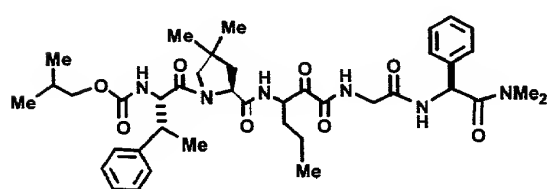


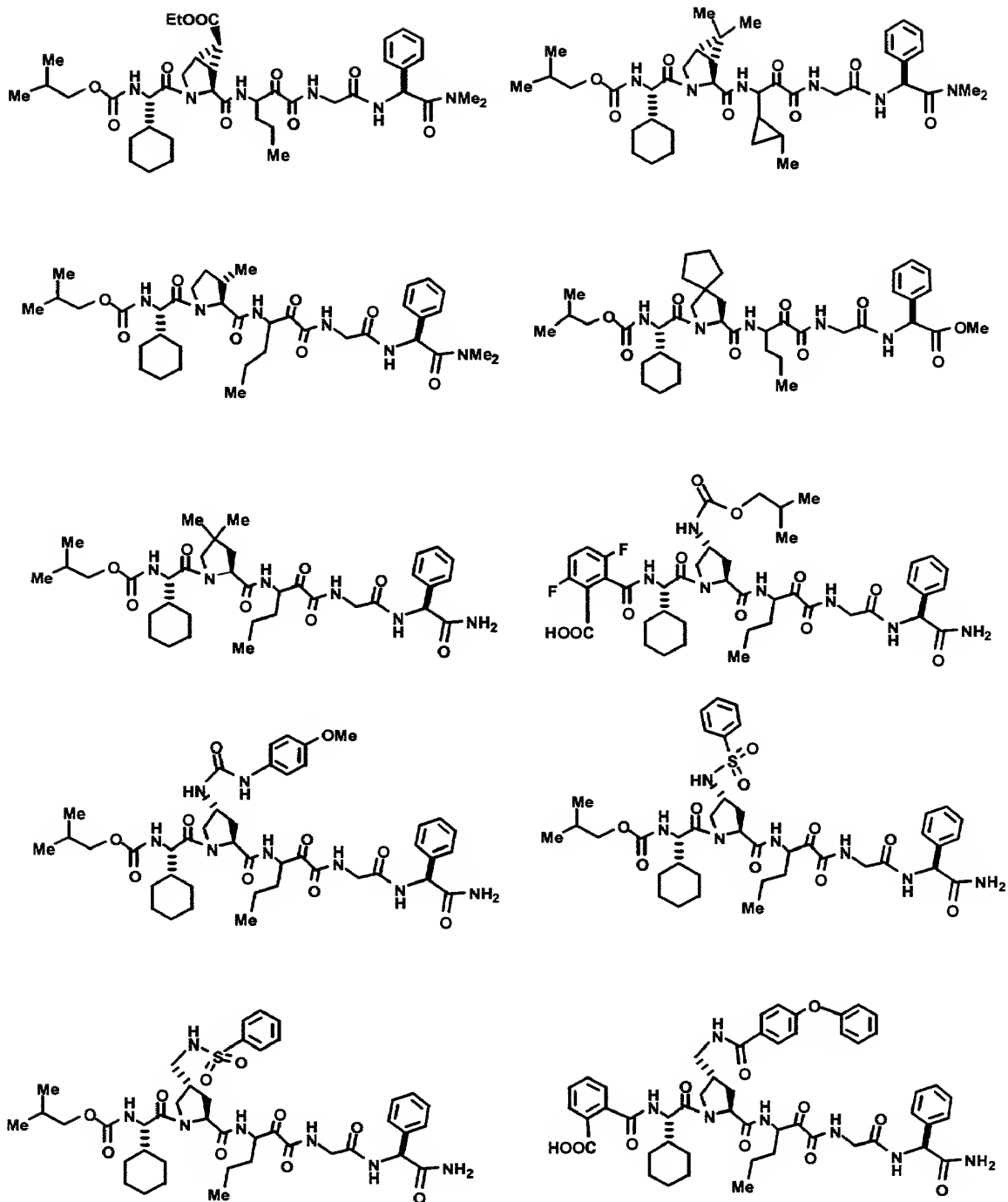
(R = t-butyl)
 (R = Isobutyl)



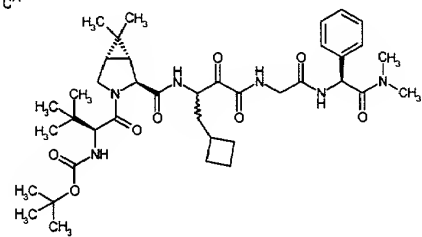
(X = Me, Y = CH₂Me)

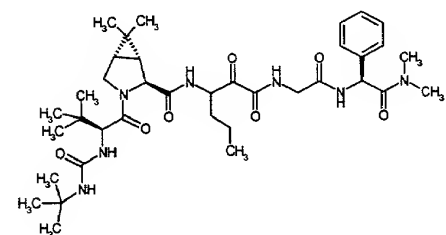
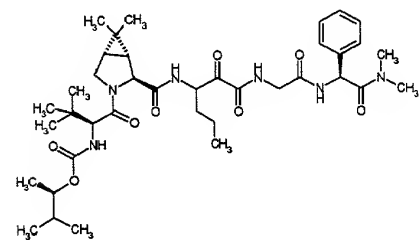
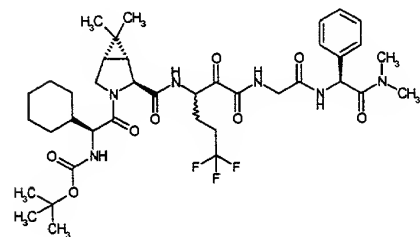
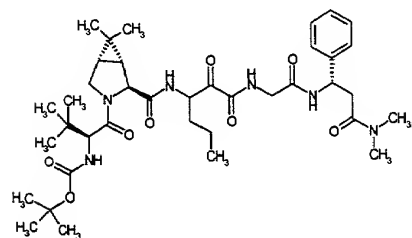
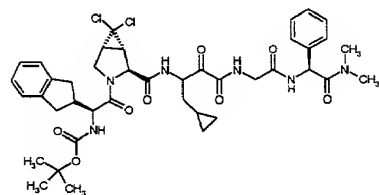
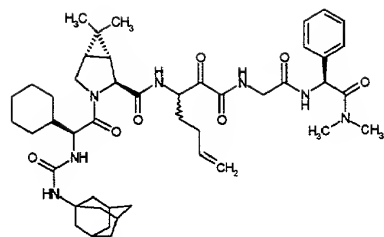
(X = OAc, Y = Me)

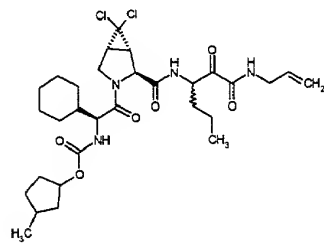


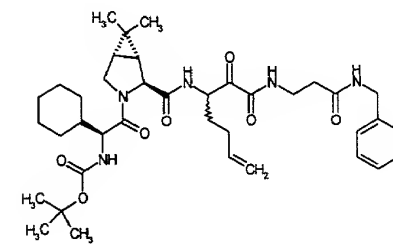
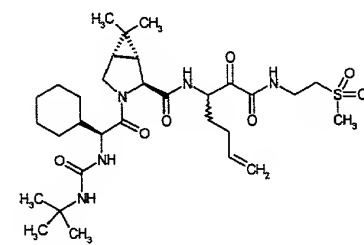
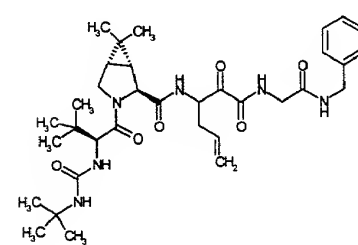
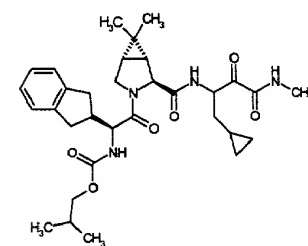
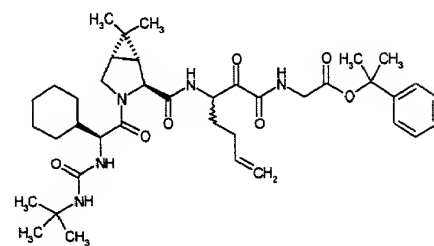
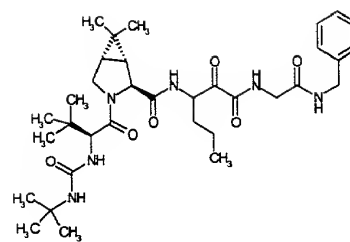
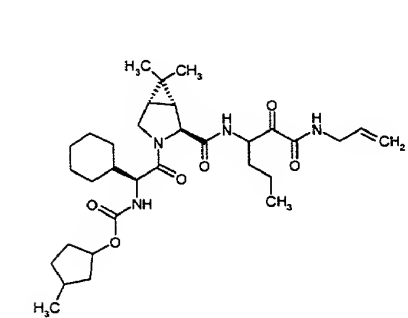
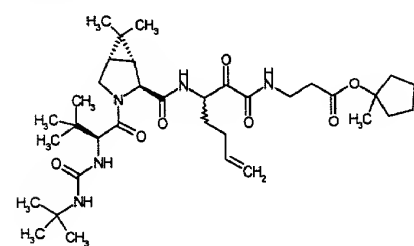
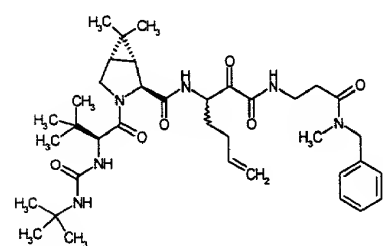
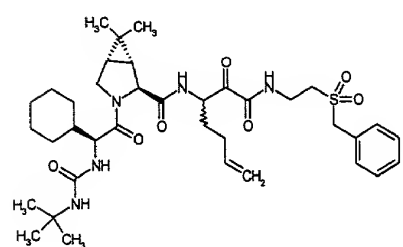
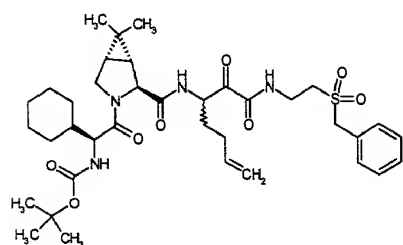
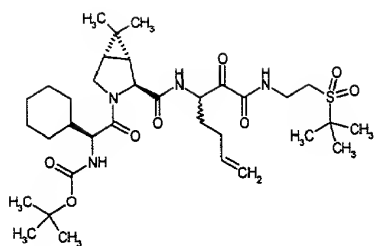


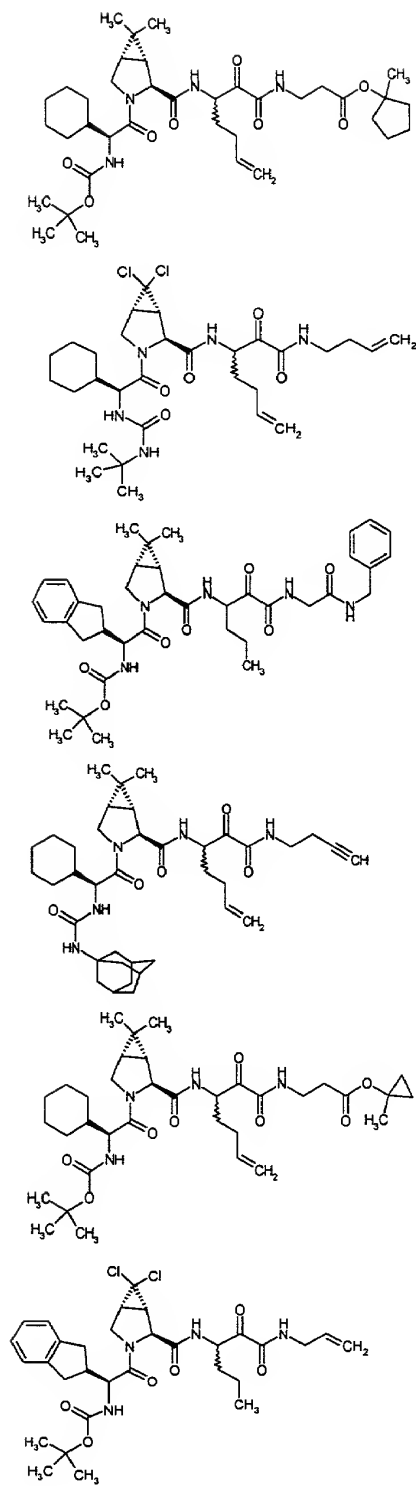
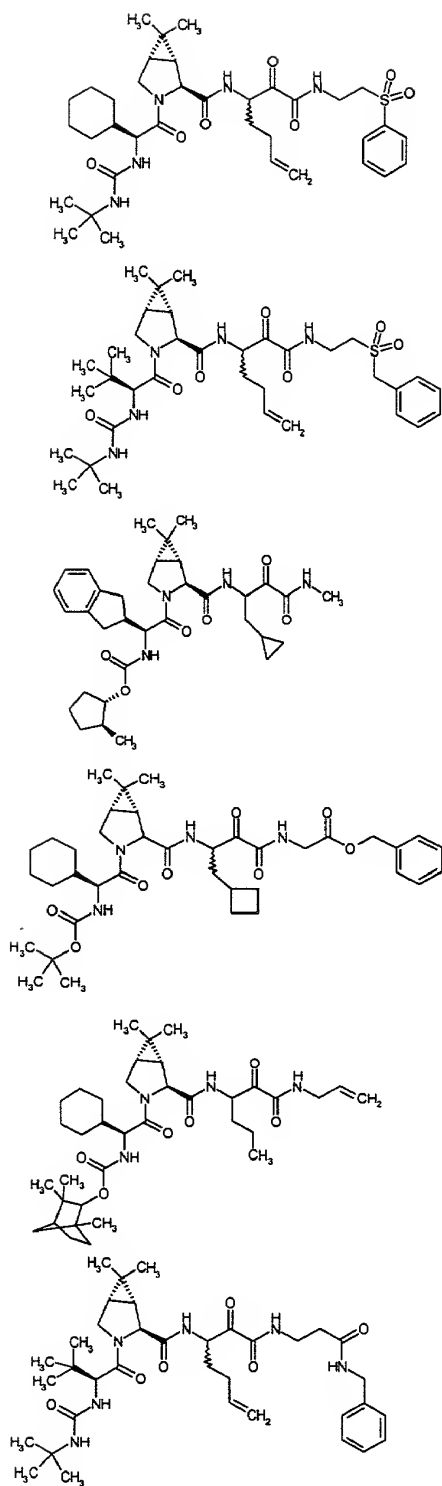
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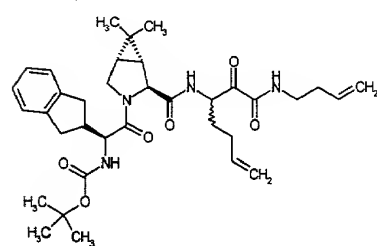
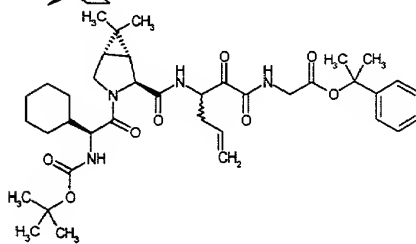
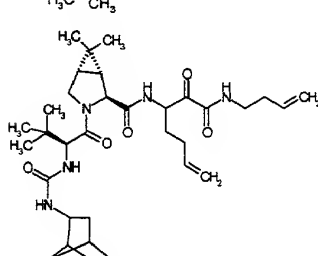
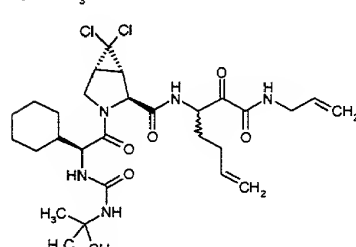
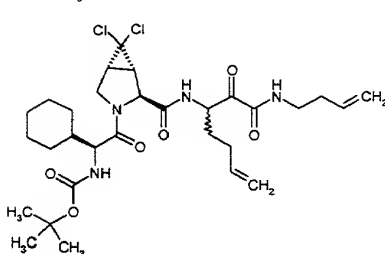
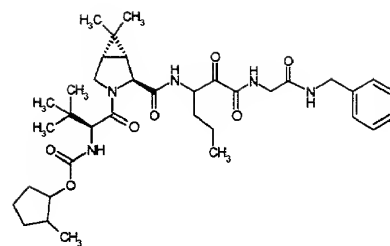
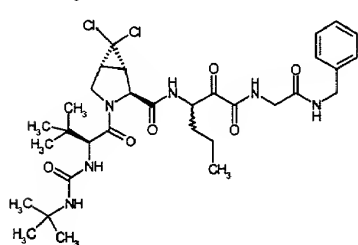
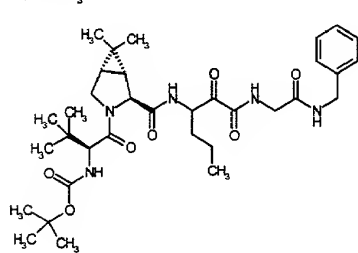
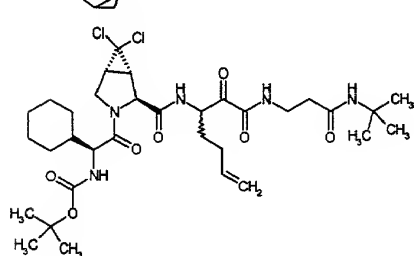
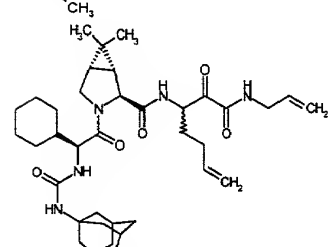
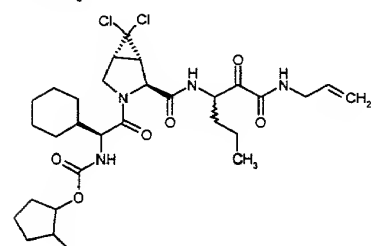
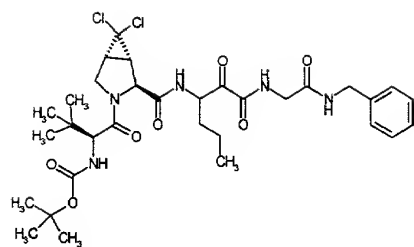


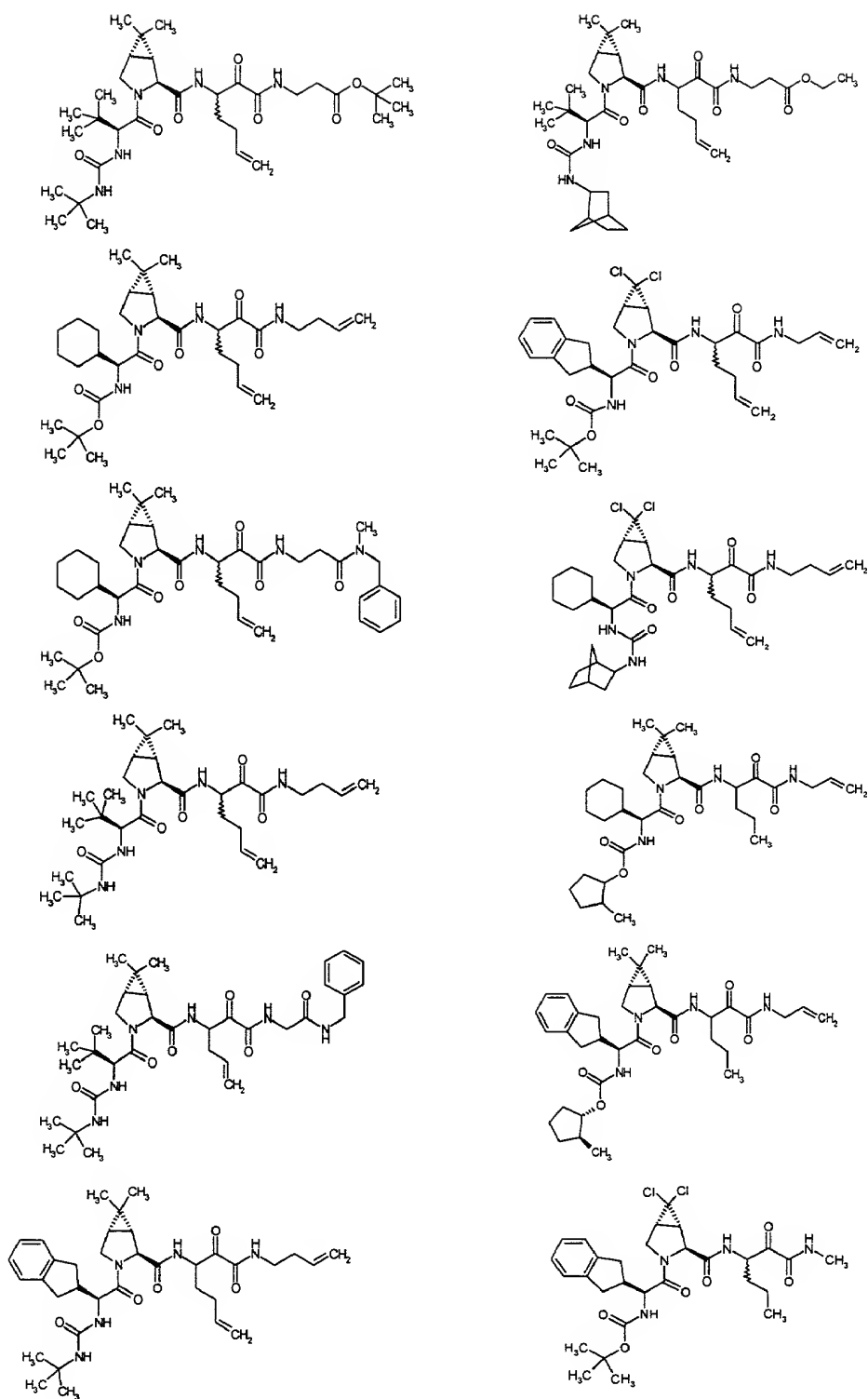


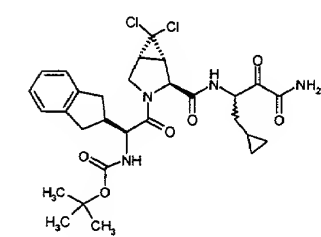
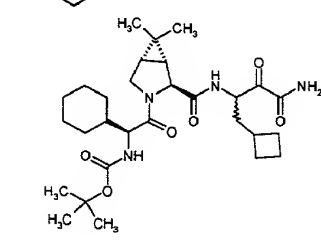
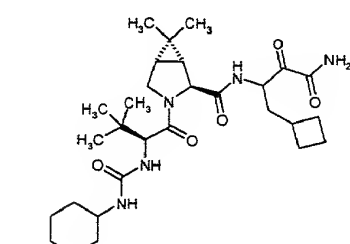
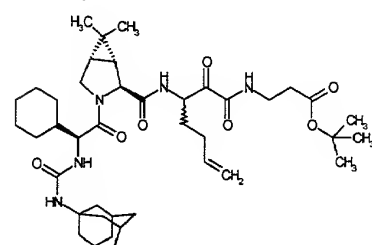
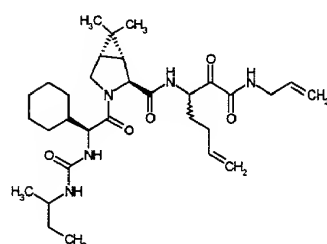
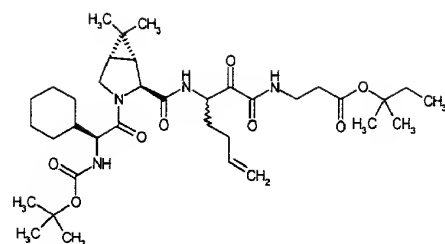
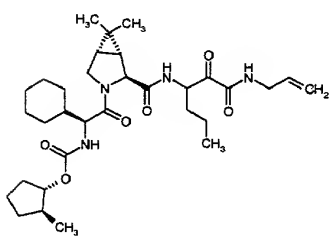
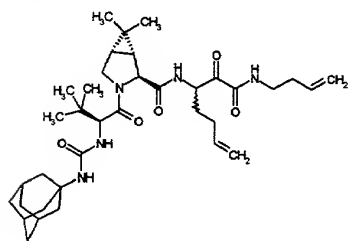
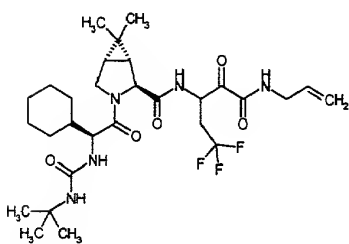
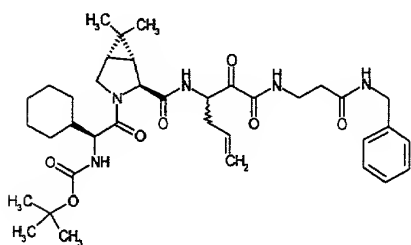
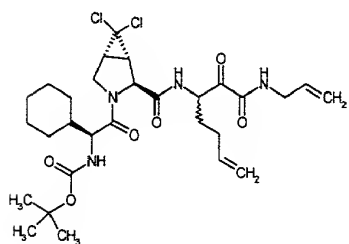
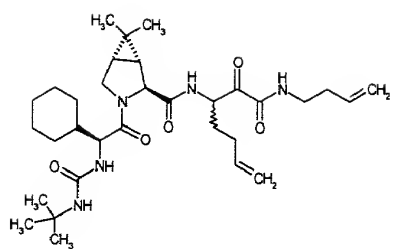




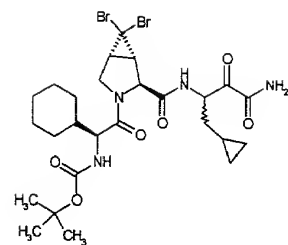
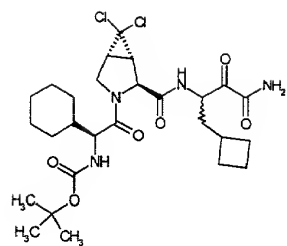




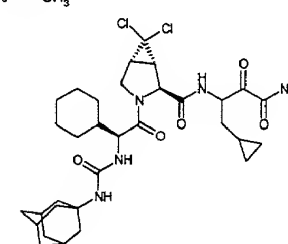
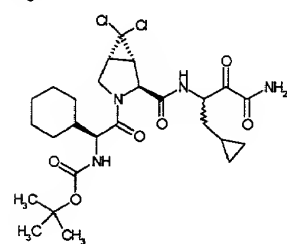
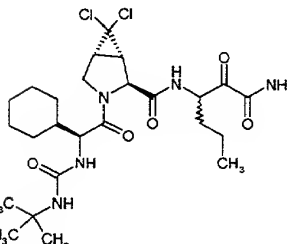
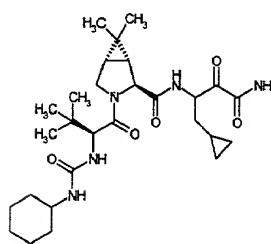
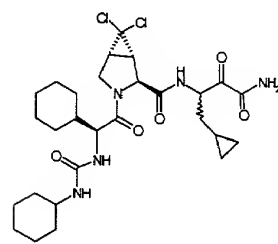
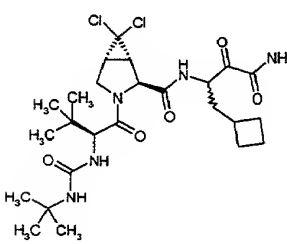
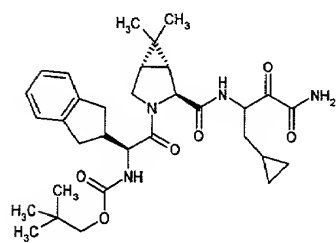
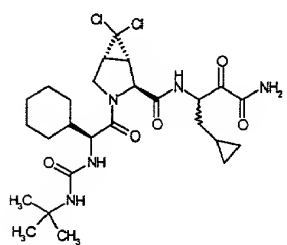
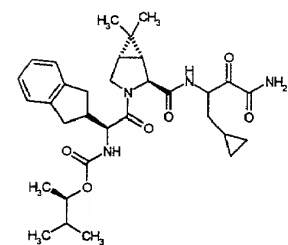
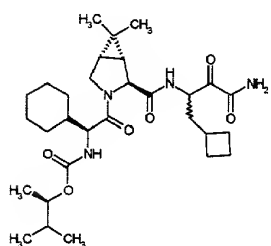




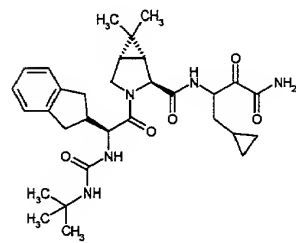
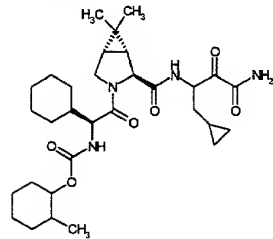
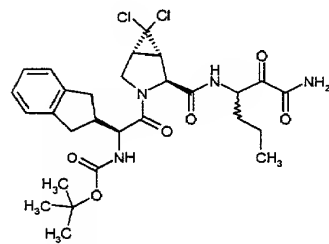
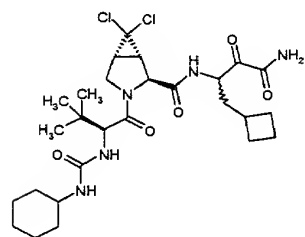
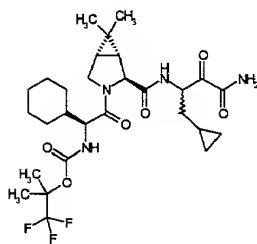
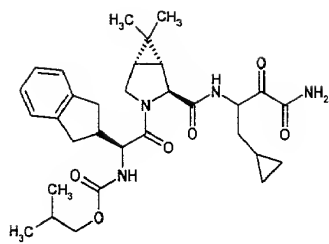
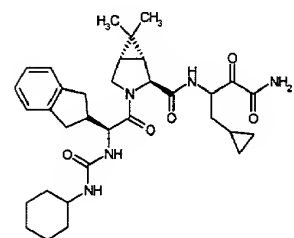
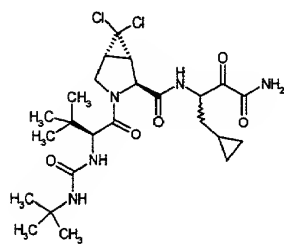
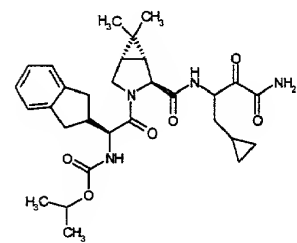
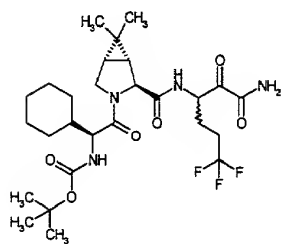
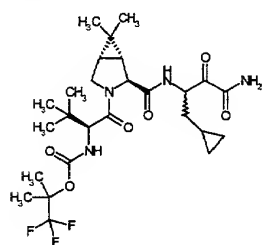
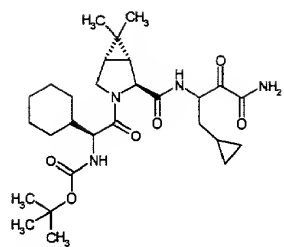
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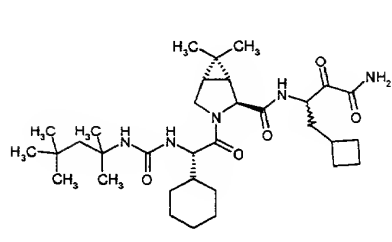
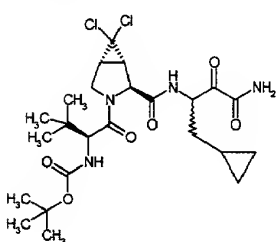
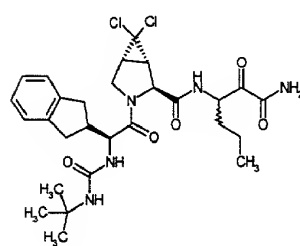
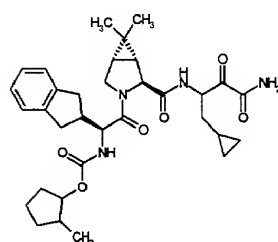
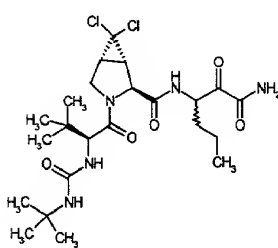
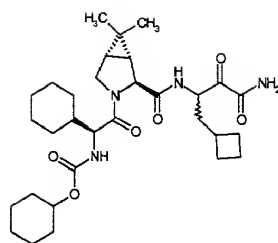
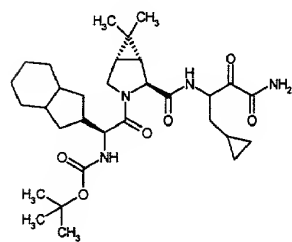
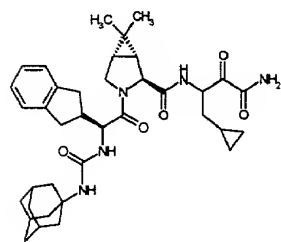
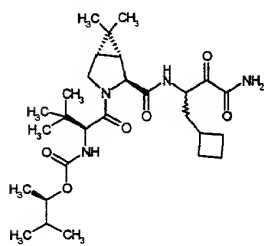
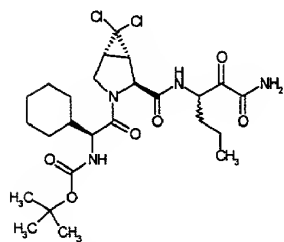
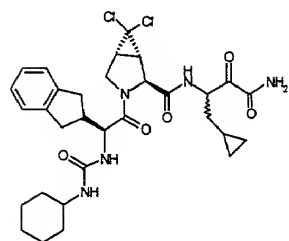
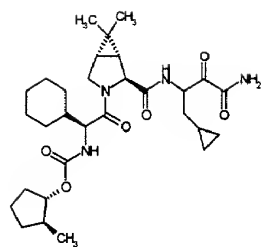


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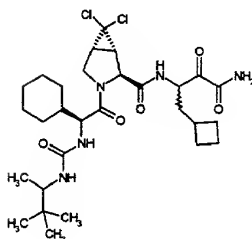
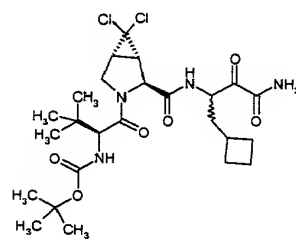
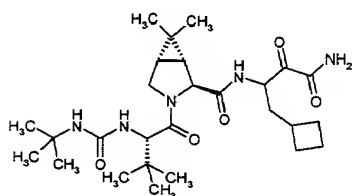
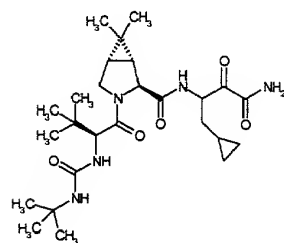
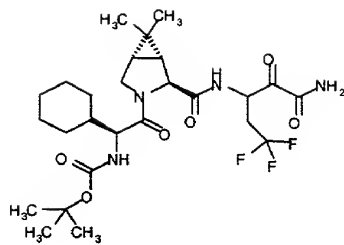
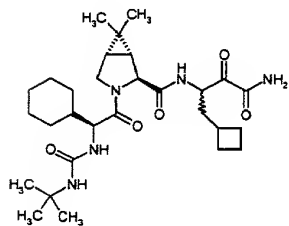
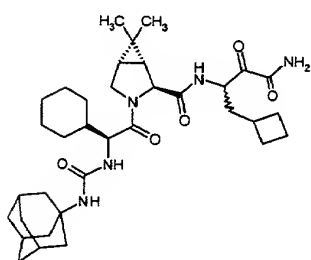
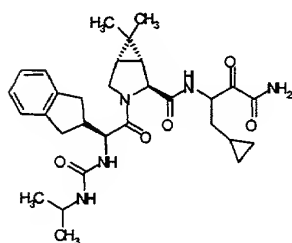
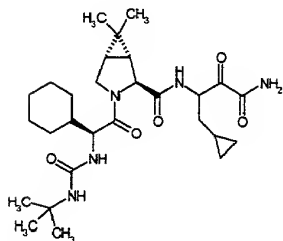
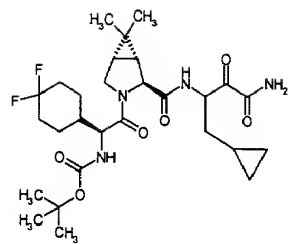


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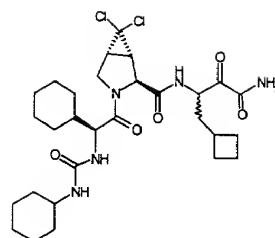
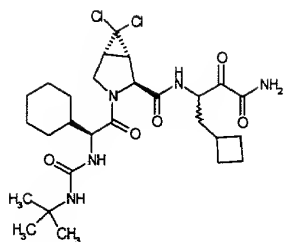




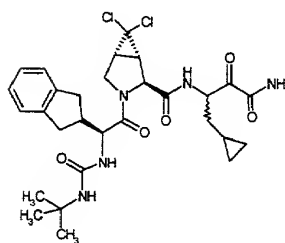
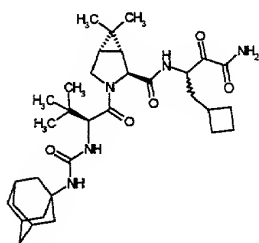
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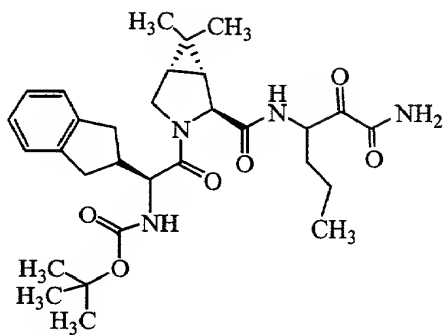
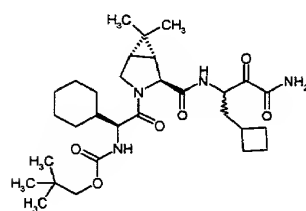
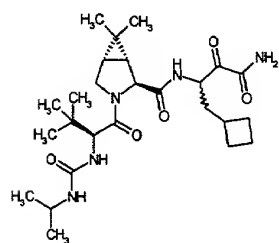
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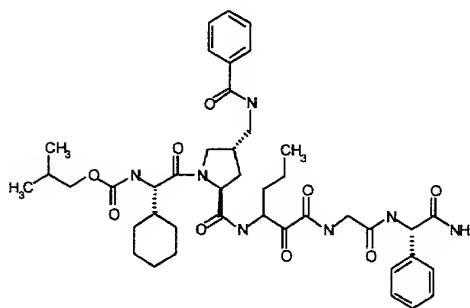
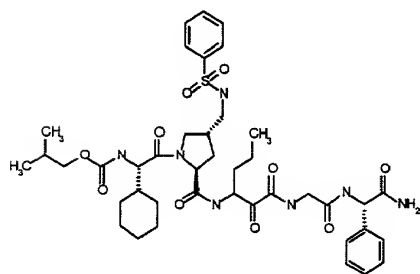
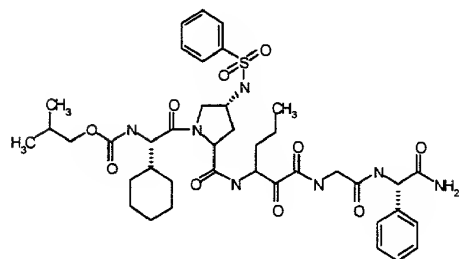
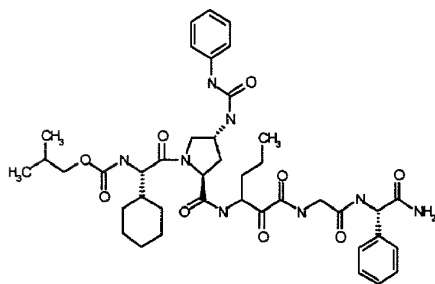
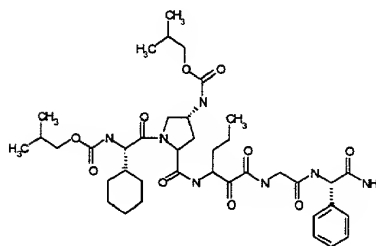
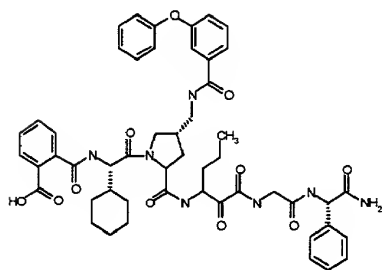
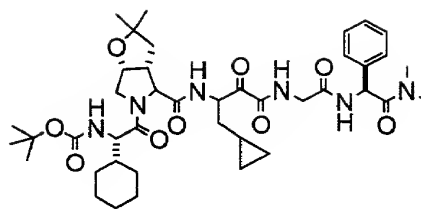
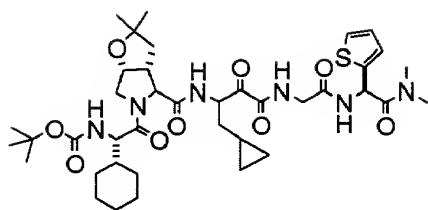
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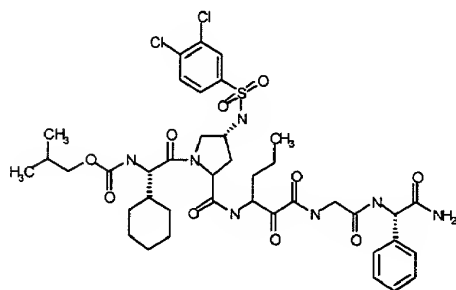
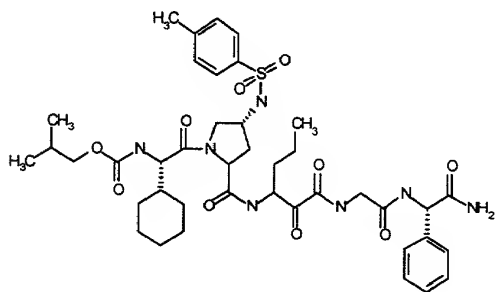
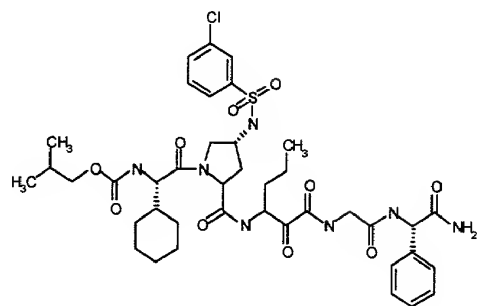
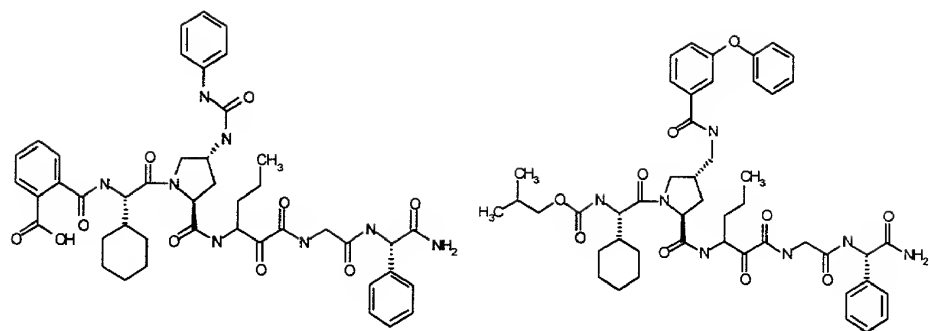


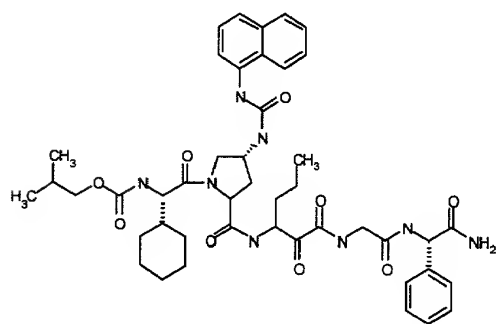
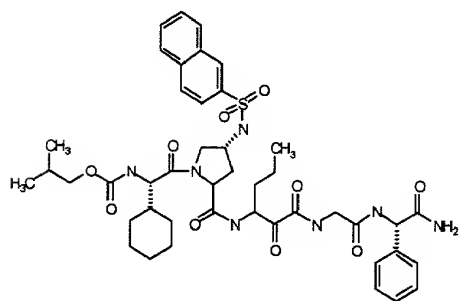
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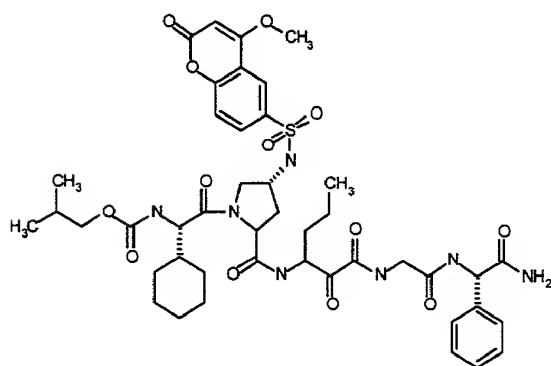
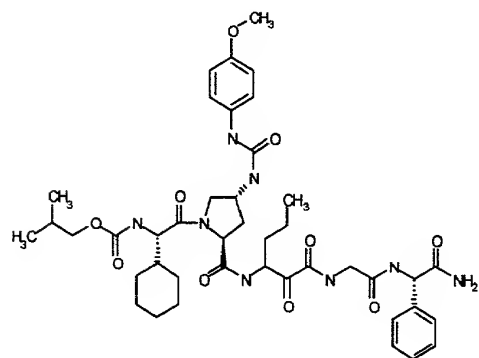


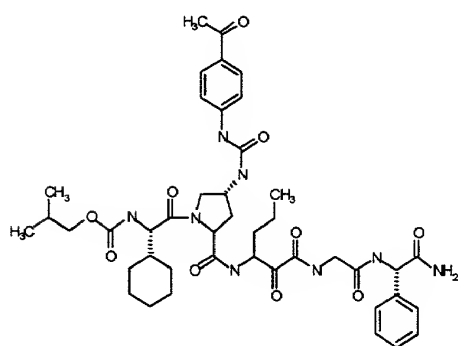
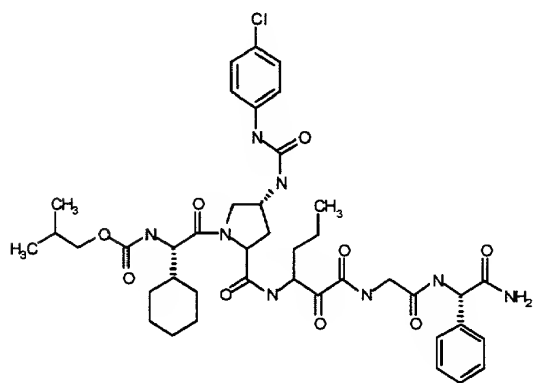
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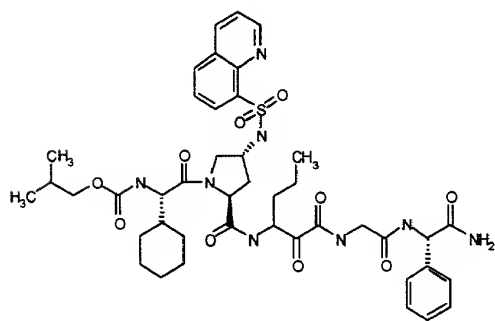
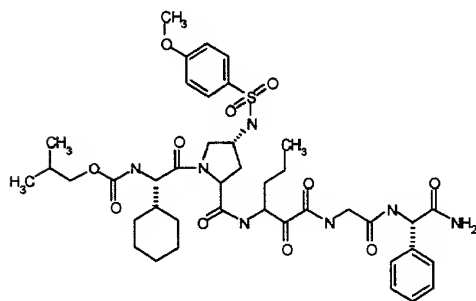
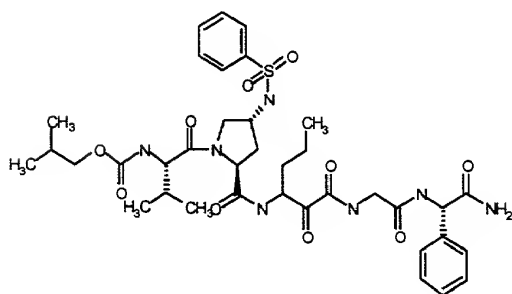
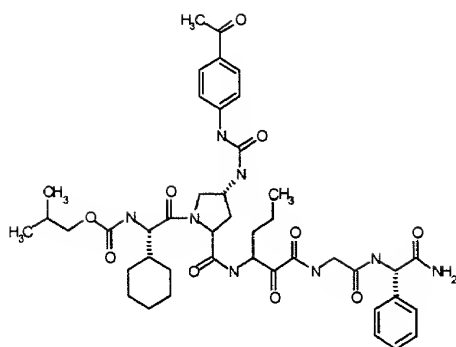


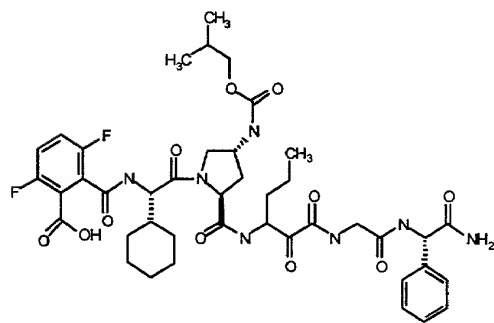
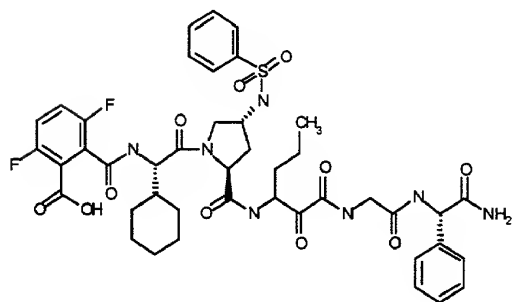
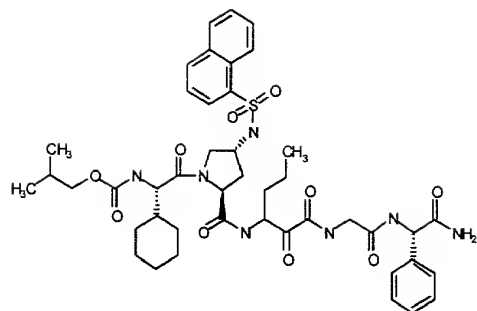


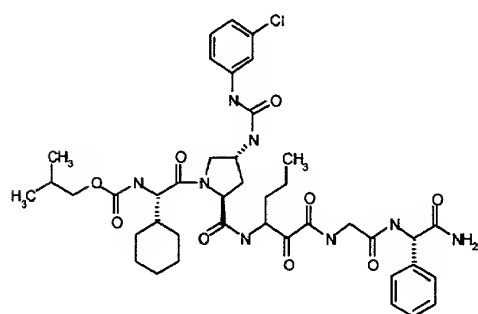
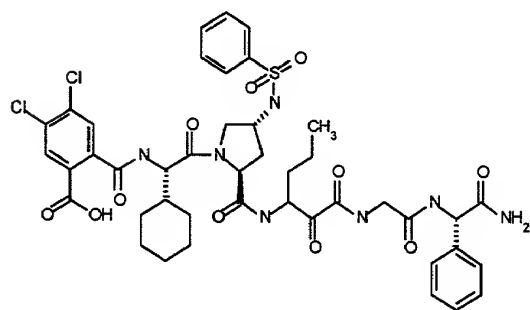
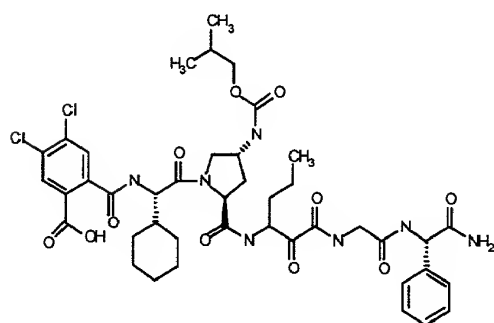
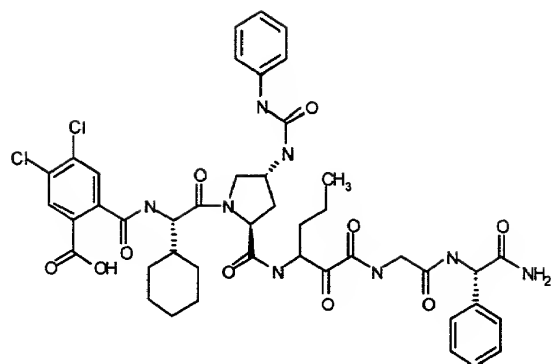


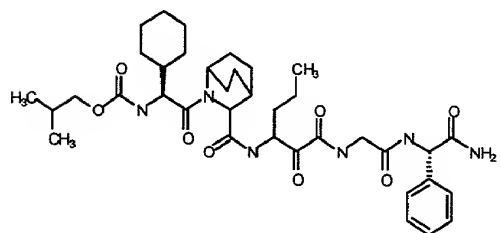
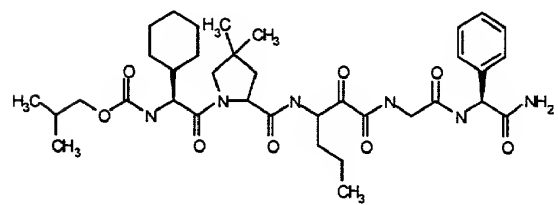
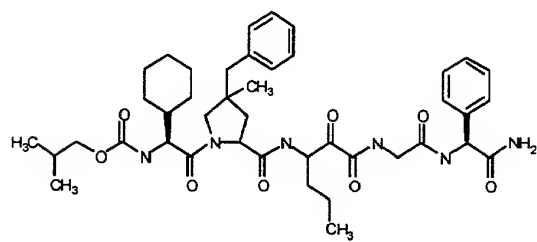
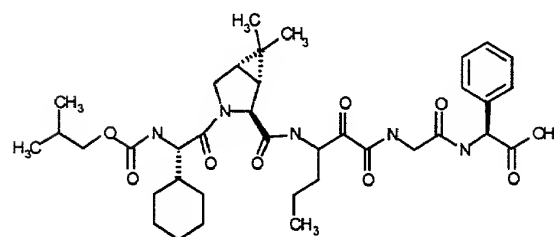


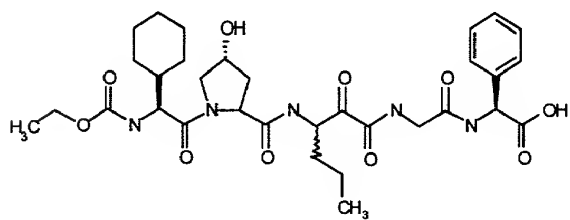
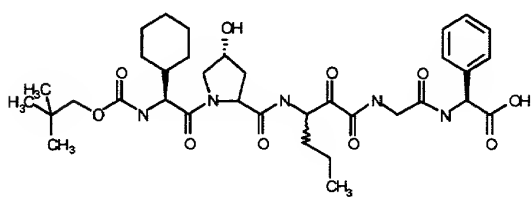
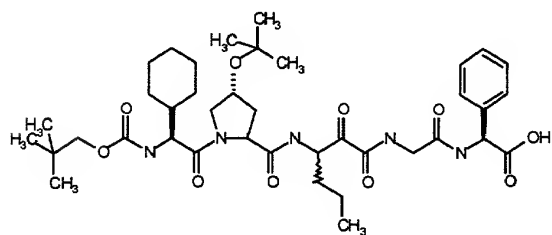
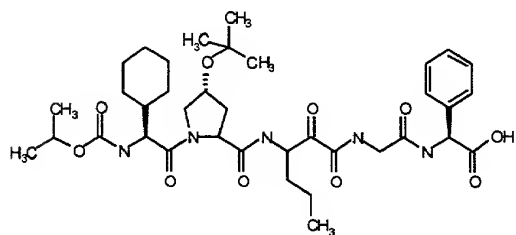


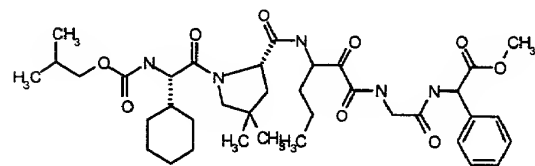
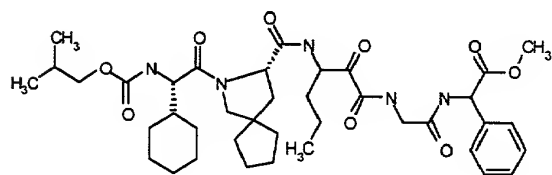
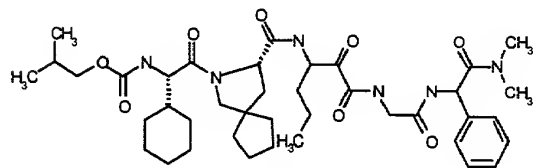
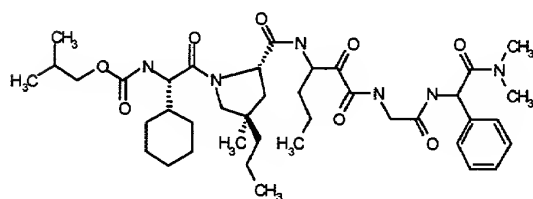
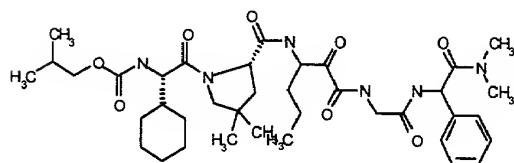
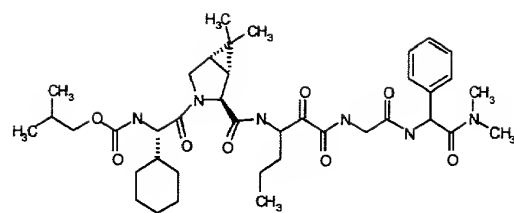


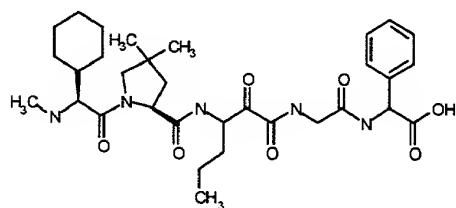
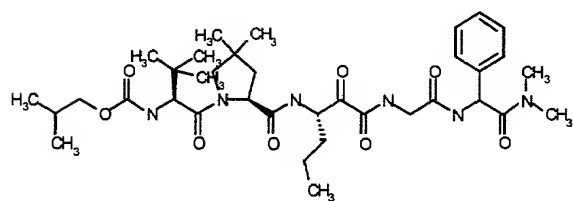
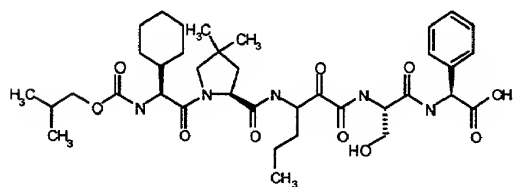
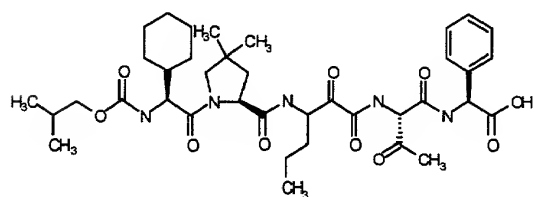
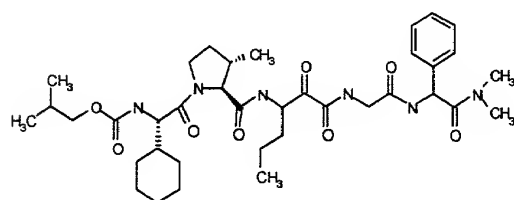
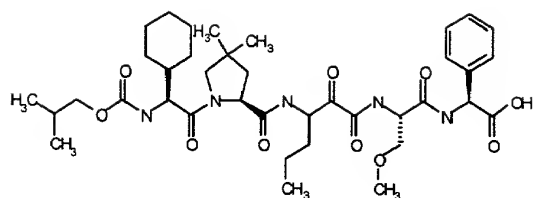


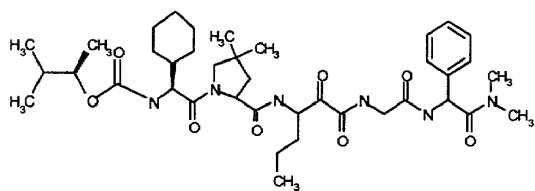
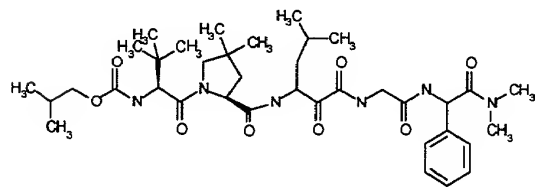
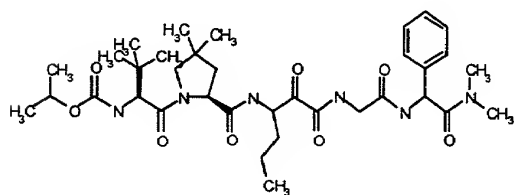
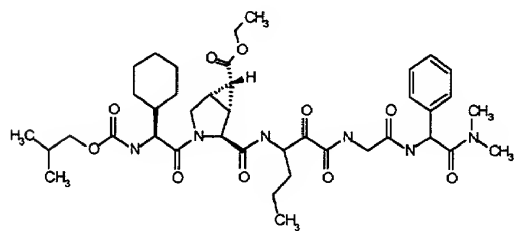
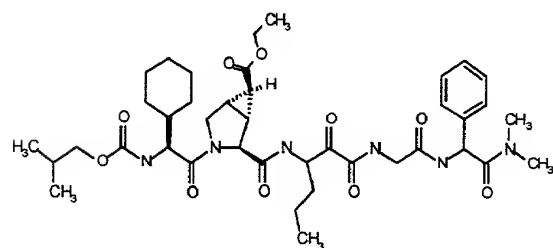
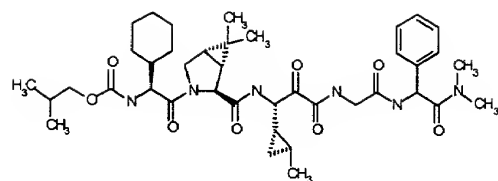


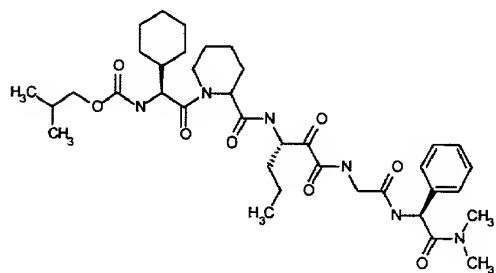
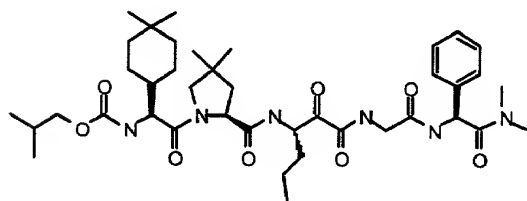
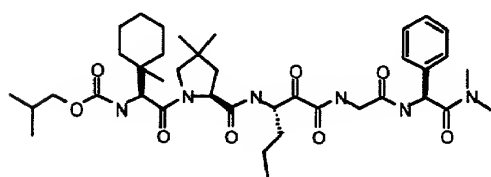
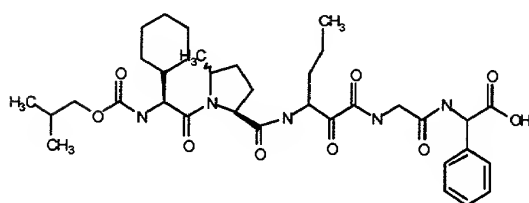
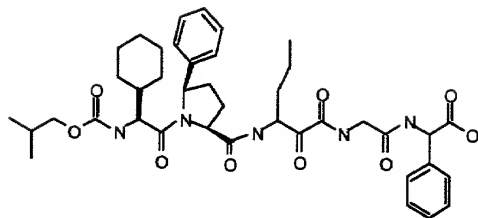


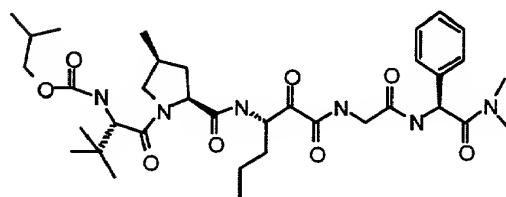
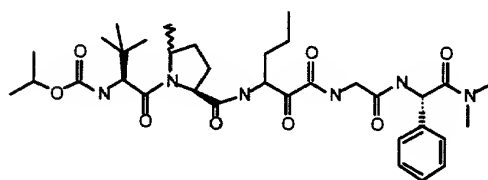
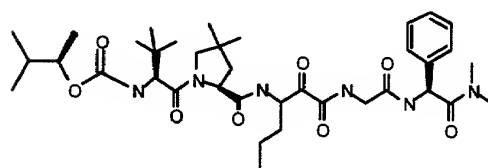
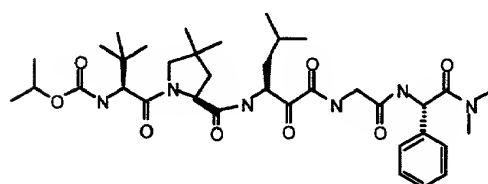
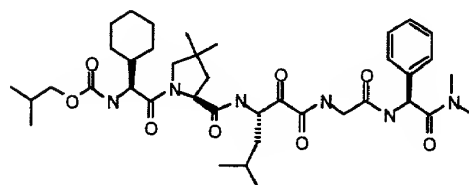
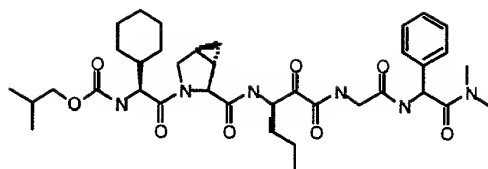


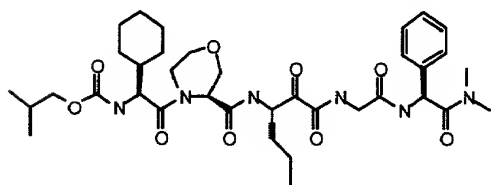
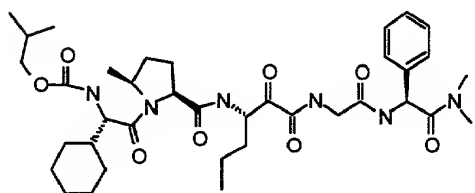
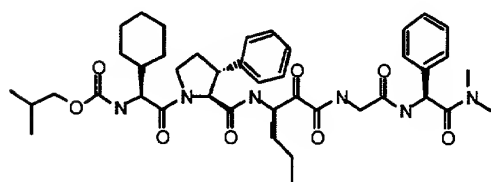
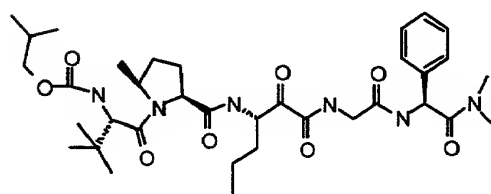
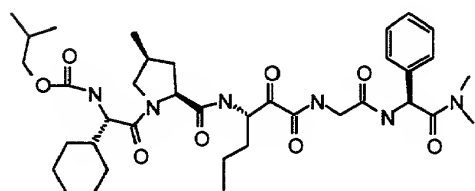
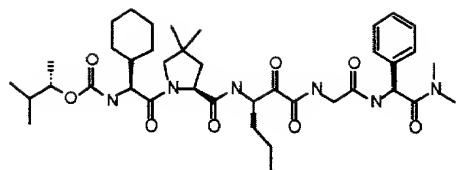


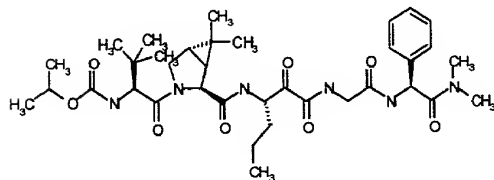
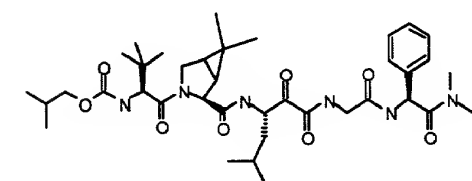
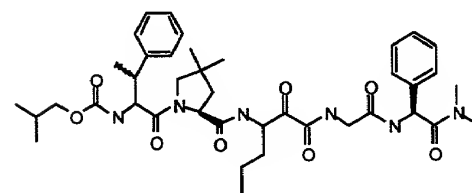
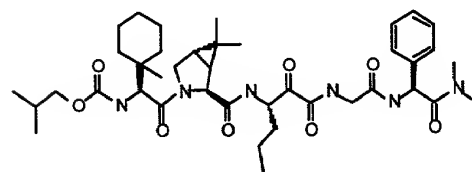
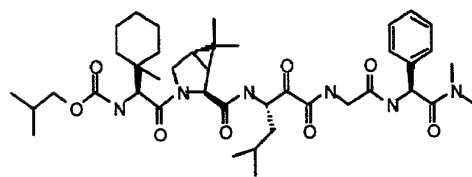
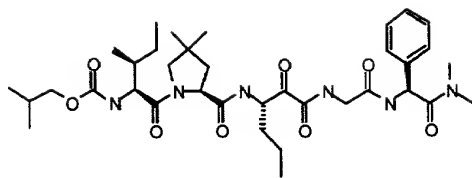


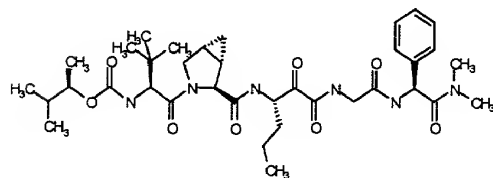
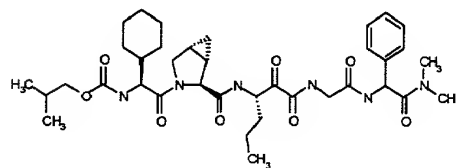
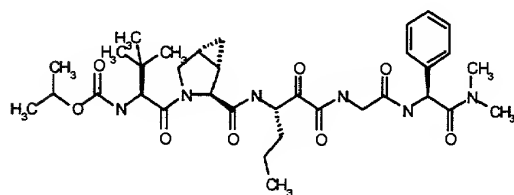
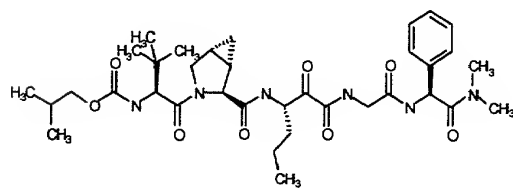
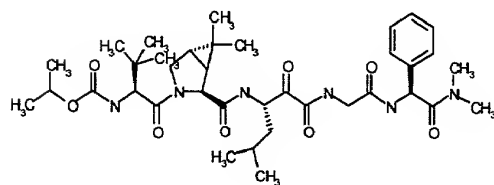
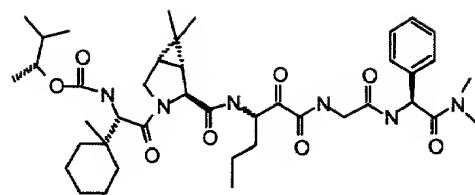


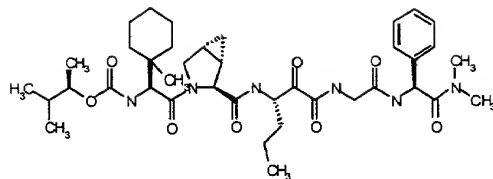












40. A pharmaceutical composition for treating disorders associated with the HCV, said composition comprising therapeutically effective amount of one or more compounds in claim 39 and a pharmaceutically acceptable carrier.

41. The pharmaceutical composition of claim 40, additionally containing an antiviral agent.

42. The pharmaceutical composition of claim 41, still additionally containing an interferon or PEG-interferon alpha conjugate.

43. The pharmaceutical composition of claim 42, wherein said antiviral agent is ribavirin and said interferon is α -interferon.

44. A method of treatment of a hepatitis C virus associated disorder, comprising administering an effective amount of one or more compounds of claim 39.

45. A method of modulating the activity of hepatitis C virus (HCV) protease, comprising contacting HCV protease with one or more compounds of claim 39.

46. A method of treating, preventing, or ameliorating one or more symptoms of hepatitis C, comprising administering an effective amount of one or more compounds of claim 39.

47. The method of claim 45, wherein the HCV protease is the NS3/NS4a protease.

48. The method of claim 47, wherein the compound or compounds inhibit HCV NS3/NS4a protease.

49. A method of modulating the processing of hepatitis C virus (HCV) polypeptide, comprising contacting a composition containing the HCV polypeptide under conditions in which the polypeptide is processed with one or more compounds of claim 39.